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The DAR Story

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and JOHN E. FLETCHER

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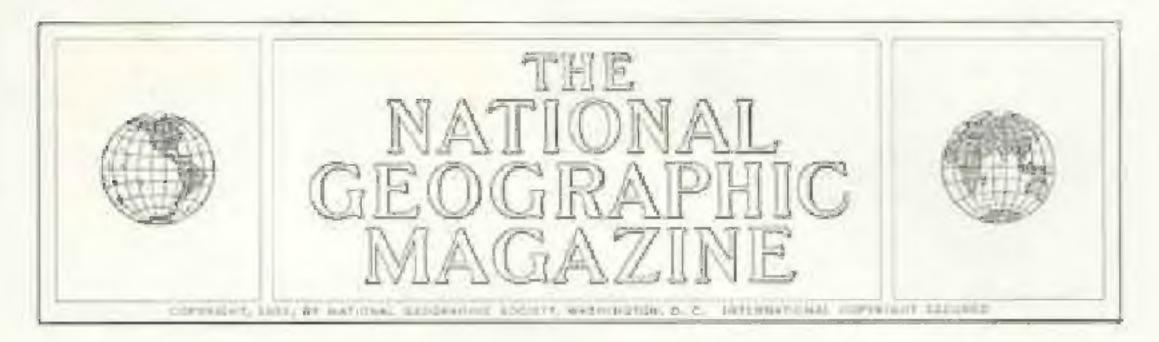
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The DAR Story

By LONNELLE AIRMAN

With Illustrations by National Geographic Photographers B. Anthony Stewart and John E. Fletcher

IN DOWNTOWN Washington, D. C., showplace of the marble and limestone giants of Government,* stands a gleaming colossus dedicated to what 154,000,000 Americans regard as the world's most successful revolt.

Headquarters of the National Society of Daughters of the American Revolution, its three-buildings-in-one add up to the biggest and most beautiful structure which women have ever taised. It is staffed, with the exception of a few maintenance workers and a business manager for the rental of its auditorium, exclusively by women.

One might say that the national home of the 'Daughters,' as they informally call themselves, is a monument to woman's consistency. For the organization it houses has held throughout its lifetime to the undeviating principles of Americanism on which it was founded.

From this nerve center lines of feminine leadership and guidance reach out to 170,000 members in every State of the Union, as well as many abroad. Devotion to the heritage of the past is a pattern that shines through the warp and woof of all the Daughters' accomplishments. Heroines of the American Revolution—Molly Pitcher, Hannah Arnett, Deborah Sampson, and the rest—have their own special niches of fame at beadquarters' appropriate D Street address, No. 1776 (page 566).

But DAR work, carried on through a network of chapter, State, and national committees, is by no means limited to the ancestral. In one way or another it touches nearly every phase of current American life, whether civic, educational, health, or national defense.

Behind the classic front of the DAR in Washington buzzes a surprising variety of activities. Not only are there rows of offices for the many chores one would expect in running the country's leading women's patriotic association; there are also 28 historic rooms, a museum, and an extensive genealogical library.

The unique DAR concert auditorium, with a scating capacity of almost 4,000, is the largest in the city (pages 584-5). Between annual sessions of the Daughters' conventions it serves the Nation's Capital as a cultural center. There, before large and appreciative audiences, are presented symphony concerts, lectures, ballet, folk singing, debates, and a wide variety of other programs whose performers may range from world-renowned artists to Washington's own Very Important Persons, lending a band for a benefit amateur night.

National Geographic Lectures Held at Constitution Hall

Members of the National Geographic Society have a special interest in the DAR auditorium. Since 1933 Constitution Hall, as both auditorium and building are called, has been the familiar setting for The Society's weekly winter-season lectures (page 573). Even before that, the old auditorium in Memorial Continental Hall was used to present such outstanding lecturers as the great British explorer, Sir Ernest Shackleton, returned from Antarctic exploits.

Veteran members of the National Geographic Society can recall many exciting evenings when trail-breaking explorers, scientists,

"Washington: Home of the Nation's Great," by Albert W. Atwood, June, 1947; Washington, Home City and Show Place, by Len 4, Borni, June, 1937; "Washington of the New Washington," by Frederick G. Yoshereh, April, 1935; and "Washington Through the Years," by Gilbert Grasvenor, November, 1941.



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DAR Headquarters in Washington, D. C., Carries the Appropriate Number, 1776

This massive three-in-one combination—Memorial Continental Hall, Constitution Hall, and their connecting link, the Administration Building—forms the largest structure ever taised by women. The Administration Building, standing at 1776 D Street, bears the Declaration of Independence date.

and aviators reported adventures that opened up new horizons of man's knowledge, from North Pole to South Pole, from the depths

of the sea to the stratosphere.

Prominent on the star-spangled list of those who have spoken in Constitution Hall are the bright names of MacMillan, Byrd, and Beche: General of the Armies of the United States John J. Pershing, and General of the Air Force H. H. Arnold, Lowell Thomas, back from Tibet: Auguste Piccard, who dared the stratosphere to study cosmic rays, and U. S. Army airmen Albert W. Stevens and Orvil A. Anderson, who won the world's altitude record in a stratosphere balloon.

At an early gathering in 1932, one of the most distinguished audiences ever brought together under one roof witnessed the presentation to Amelia Earhart of the National Geographic Society's Special Gold Medal, honoring her solo flight over the Atlantic.*

It was by no accident then that President Hoover, in making the award on behalf of The Society, described the tragically destined aviatrix as belonging "in spirit with the great pioneering women to whom every generation of Americans has looked up." To see DAR headquarters "whole," I drove slowly, one evening at dusk, around the full city block it occupies in the shadow of the Washington Monument. An endless chain of winking headlights from homeward-bound traffic lent an air of mystery, of shadow and substance, to the stately-columned façade of Memorial Continental Hall. Beyond stretched the simple, horizontal lines of the connecting Administration Building; still farther loomed the great square of Constitution Hall, with its massive entrance steps and broad, Ionic-pillared portico.

Continental Congress Draws Thousands

Each spring more than 4,000 delegates converge on these buildings to attend the Continental Congress, the DAR national convention which has become as much a part of the Capital scene as the cherry-blossom festival. The spring date itself is a symbol of DAR feeling for American history. The Daughters permanently reserve Constitution

"My Flight from Hawait," by Amelia Earbart, May, 1935; and "Society's Special Medal Awarded to Amelia Earbart," September, 1932.

Hall for themselves during the week that includes April 19, date of the Battle of Lexington.

Curtain raiser for the Congress is the formal opening at Constitution Hall (pages 584-5), resplendent then with flags and flowers, with pretty pages, jeweled badges, ancestral bars, and broad official ribbons of blue and white, taken from the staff colors of General Washington,

Patriotic speeches by DAR leaders and distinguished guests are the order of the day. Often the President of the United States addresses the gathering. In fact, since the National Society was founded, virtually every President, at least once during each administration, has cither spoken at the Continental Congress or sent his good wishes (page 571).

On April 19, 1951, occurred one of the big dramatic moments of DAR history. It happened that this Battle of Lexington anniversary was also the day when

General of the Army Douglas MacArthur returned to the Capital to make his now famous "old soldiers" speech before the joint meeting of the U.S. Congress. Slipping away from the welcoming Washington crowds a little later, he came to Constitution Hall to address the Daughters gathered there for their Sixtleth Continental Congress (page 582).

"I determined to stop by," said the general, "to avail myself of an opportunity I have long sought personally to pay you the tribute that is in my heart.

Of all the great societies of the country during the past century. I know of none which has fought more diligently for the preservation of those great ideals which bulwarked out fore-fathers in their efforts to secure and preserve freedom.... In this hour of crisis all patriots look to you. Good-by."

Behind the emotion-packed high spots of such sessions and the patriotic pageantry that thanks all DAR conventions, the practical basic work of each annual meeting goes on election of officers, committee reports, drafting of resolutions, and other acts of leadership by



George Washington Slept Here

The Daughters have set up more than 12,000 plaques commemorating Revolutionary homes, trails, graves, and hattlegrounds (page 579). Washington was a frequent visitor at the Capital's 2618 K Street when the house belonged to Thomas Poter and his wife, Martha Parke Custis, grandfaughter of Martha Washington. The general's diary tells of a stop here in November, 1799, a later date than that shown on the marker.

General of the Army Douglas MacArthur returned to the Capital to make his now famous Nation-girdling programs.

In the crumbling yellowed pages of old issues of the Evening Star and Warkington Post one can trace the modest beginnings of today's strong and influential society.

DAR Founding Spurred by Indignant Woman

During the summer of 1890 an open letter in the Washington Post attracted public attention and spurred the first formal and united action. The date was July 13, in a peaceful horse-and-huggy year when an editorial writer could point to the development of a new "dynamite gun" so frightful in its destructiveness that it would discourage future warfare.

Looking past this and other timely items of that quiet Sunday morning. Putt readers came on a strongly worded letter from an indignant woman. The writer was a Capital resident, Mrs. Mary S. Lockwood. Like many thoughtful women of the time, she felt that feminine exclusion from membership in the



Genealogical Detectives Teach Down Family Ties in DAR's Flag-decked Library
Theater bases remain from the days when the high-cellinard room was the DAR auditorium, used for conventions
and other gatherings. Not only members but lawyers and hobbyists make use of the library's facilities (page 591).

lately formed patriotic organization, Sons of the American Revolution, was not only a distrimination against her sex but a failure to bonor properly the heroic part women played in the Revolution.

"One-sided patriotism," Mrs. Lockwood called it. "Were there no mothers of the Revolution?" she asked. "Were these sites without dams? I trow not . . . I have heard of a man," she added caustically, "who had a dam by a mill site, while he had no 'mill by a dam site,' But I have yet to hear of a man who had a Revolutionary sire without a dam

by the home site."

To clinch her point, she told of Haonah Thurston Atnett, who lived in Elizabethtown, New Jersey, during the desperate days of December, 1776. When a group of American leaders, including her husband, met at the Arnett home in a despairing council that leaned toward acceptance of the British offer of animesty, she rekindled courage and the will to resist by denouncing would-be traiters to the Revolution. She even threatened to leave her own beloved husband if he should forsake the cause.

"On the roll of honor," Mrs. Lockwood concluded her letter, "are the names of men who fought for their country and won distinction afterward, who were in this secret council. . . Where will the sons and daughters of the Revolution place Hannah Thurston?"

The answer was the founding of the DAR.

Man Volunteers Aid

Interested Washington women, rallying to the support of Mary Lockwood, immediately began taking steps to form a society that would do honor to the Hannah Arnetts.

From Newark, New Jersey, came another open letter to the Washington Past, from a great-great-grandson of Hannah Arnett and one of the leaders of the women-excluding Sons of the American Revolution. Its writer, William O. McDowell, volunteered to help with the practical details of arranging meetings, adopting a national constitution, and electing officers. After his part was done, he promised he would turn the job over entirely to the leaders of the budding organization.

After various preliminary conferences during that bot Washington summer, the first official meeting of the DAR was beld on October 11, 1890. The date chosen, the eve of the anniversary of Columbus's discovery of America, had been suggested by McDowell as particularly appropriate, since it was the generosity and wisdom of a woman, Spanish Queen Isabella, that provided Columbus with the means of outfitting a flect for his perilous voyage.

Eighteen women signed up for membership

at the first DAR meeting, including the four later officially recognized as founders—Mary S. Lockwood, Eugenia Washington, Mary Desha, and Ellen Hardin Walworth.

A constitution was adopted. Caroline Scott Harrison, wife of the President of the United States, was elected President General (pages 581 and 583). Eleven members contributed \$3 each in dues.

The National Society, DAR, was launched —with a treasury of \$33 and an uncharted future.

Founders' Premises Fulfilled

The new organization's aims were packaged in an elastic phrase, "patriotic, historical, and educational." As stated in their constitution, the founders resolved "to perpetuate the memory and spirit of the men and women who achieved American independence." They would do this by raising monuments, protecting historic spots, encouraging Revolutionary research, preserving historic documents, and promoting celebrations of patriotic anniversaties.

Further, they would "carry out the injunction of Washington in his Farewell Address: to promote . . . institutions for the general diffusion of knowledge," thus developing an enlightened public opinion and affording to young and old such advantages as shall develop the largest capacity for performing the duties of American citizens." They would "cherish, maintain, and extend the institutions of American freedom; foster true patriotism and love of country. . ."

Today's Daughters can look back on six decades of literal fulfillment of the promises

made by their society's founders.

They have restored hundreds of historic buildings and raised and marked patriotic monuments all over the country. They have collected an immense amount of Americana; encouraged good citizenship and patriotism among the young by thousands of special awards and large and continual contributions to educational facilities. They have founded and maintain two schools of their own in isolated mountain regions.

"It would take hours to tell you all about the thousand-and-one programs we now have under way," said slim, blue-eyed Mrs. James B. Patton, of Columbus, Ohio, current Presi-

dent General (page 581).

"Fundamentally, of course, our work is for 'God, home, and country." But we are not airaid to be out in front fighting for what we believe in . . . Now everyone has come around to what we have been saying for years—that our country is threatened by frightening, un-American forces, by enemies within and without. By spreading light on the American ideal

The DAR Preserves Yorktown's Old Custombouse

built in 1706, the building on the first contombouse in the American Colomb Has paper withing to land cargoes at vitra our port. After serving in a number of capacities the bouse was bought in 1924 by the DAR's Count de Grase Chapter and opened at a mustim it commendents. The corect of a maintain who helped with the victory chapter.

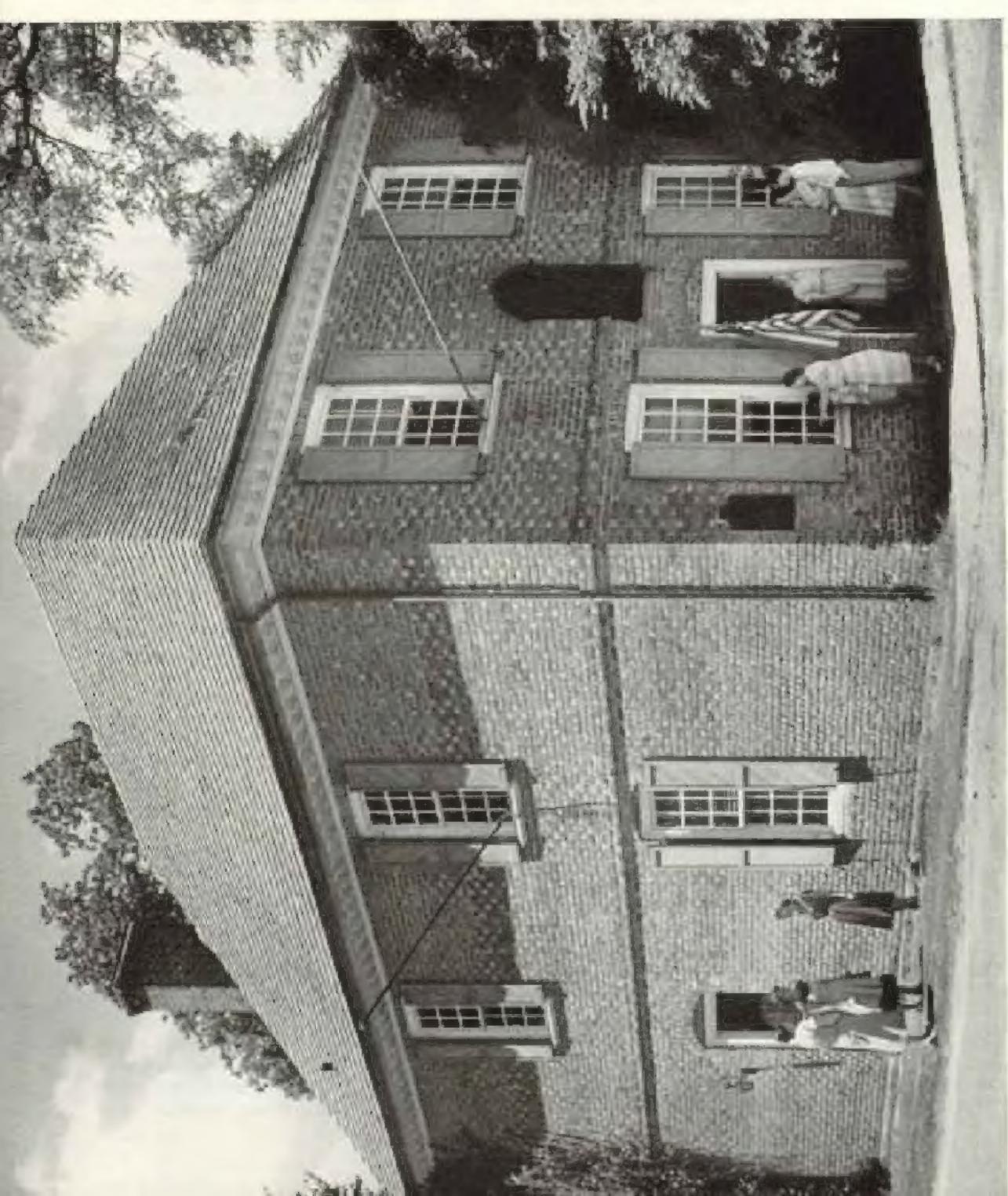
of the independent straysle.

Frances year placed in conthe Graves, was placed in command of a French Beet in 1831
and sent to the aid of the
American. With 78 anips and
everal thousand troops he
salled from the West Indies for
Chespeake Ray arriving late
in August. The soldiers and
some of the veed James Kiver

De Grave's flect, reputieing a Beltish may a force, set up a Hockade that prevented rein forcements from reaching Comwallish beleaquered army at

Varietown.

George Washington, on hearting of the Frenchman's death
in 1555, weste. 'His same will
be long deservedly dear to this
country."





"We Shall Fight to Preserve Freedom . . ." Harry S. Traman DAR officer and distinguished guest, till Constitution Hall's big stage. Recording Secretary General, Mr. Warras Shattuck Curner, reads President Textonnal greetings to the Sixtioth Continental Congress.

"that all our citizens would join with your sockety the year its paying homing to the ideals on which our Nation is founded.

In its the task of the free world to be to defend, with armed force if nearestry, this continuing liberation of the free founds.

Past Providents General (for left) are distinguished by broad official ribbions (page 581), Vice Providents General (right) wear narrower lands. we hope to help others to see more clearly through the fogs of Communist propaganda.

that surround us on every side."

Back in 1890 the time was ripe for the development of an organization such as the DAR. Patriotic fervor, revived around the 1876 celebration of the first hundred years of independence, had merged with an expanding Nation's pride in "manifest destluy." Women's clubs were growing and federating, and enthusiasm was perking for various national organizations working toward woman suffrage and other feminist causes.

So the DAR grew and prospered. By 1900 there were some 30,000 members meeting the requirements of direct lineal descent from ancestors who, "with unfailing loyalty" in military or civil capacity, had served the cause

of American independence,

"Foolhardy Women" Build Well

In 1902, when enrollment had risen above 38,000, need for a national headquarters was unmistakable. Ignoring remarks about "foolhardy women," the organization purchased a portion of the undeveloped and swampy land north of what is now Constitution Avenue, at the edge of Washington's Mall.

This land had once been part of the huge tract owned by the "obstinate Mr. Burns," as George Washington, misspelling his name, called the crusty old Scot who was the last to sell his property for the use of the Capital that was to open for business in 1800.

Later, one of Washington's early mayors, Capt. Thomas Carbery, built a pleasant residence on the DAR site-to-be. The old Burnes cottage and the Van Ness mansion erected beside it were other landmarks of the area.

The DAR Memorial Continental Hall, however, was the first private building of antional scope to rise in the vicinity of the White House, Treasury, and the old State, War, and

Navy Building.

This area now contains nearly a dozen huge Government and semipublic structures, including the handsome buildings of the American Red Cross and the Pan American Union.

The cornerstone for Continental Hall was fuld in 1904, with the same historic trowel used by George Washington more than a century earlier to dedicate the foundation of the National Capitol.

That women could get things done in a hurry was proved in 1905, when enough of the building was ready to hold there the Four-teenth DAR Continental Congress.

Gradually, over the next quarter-century, the rest of the mammoth headquarters took form.

First, in gleaming Vermont marble and

granite Memorial Continental Hall stood complete, with broad stone terraces and three handsomely columned porticoes (page 596).

Inside was the original auditorium, patterned after an old town meeting hall and seating 1,600. Reaching to the roof, surrounded on three sides by galleries, this auditorium saw 20 sessions of Continental Congress between 1910 and 1929. It even witnessed a little world history, in 1921, when the hopeful Washington Conference on the Limitation of Armaments held meetings there.

Meantime, more ground had been bought to provide additional space for ever-expanding activities. Adjoining Continental Hall, the Administration Building was opened in 1923, with 32 rooms to house the growing executive

and clerical staff.

But already the Daughters were beginning to crowd their old auditorium. So, step by step, as the contributions piled up from faithful members and chapters around the country, Constitution Hall came into being. Completed in 1929, it provided a tailor-made meeting place, built and equipped to fit the needs of the huge annual gatherings.

On the grounds that same year another longterm project came to fruition, a memorial to the organization's founders. The work of a DAR member, the late Gertrude Vanderbilt Whitney, it portrays in white marble the simple draped figure of a woman, arms out-

stretched (page 586).

But woman's work, says the old saw, is never done. Only last year a general renovation job was completed at a cost of well over a million dollars. Added to the extensively remodeled Administration Building were new office rooms and a huge streamlined voting half, whose fast-operating equipment now eliminates the hectic all-night sessions that once marked DAR election night.

Another addition was the new Museum Gallery, where thousands of historic articles, lovingly gathered through the years, could at last be displayed in a setting suitable to one of the Nation's outstanding collections of

early Americana.

Museum with Home Touch

"We like people to think of this not as a formal museum but as a collection of precious relics of their forefathers and ours," said soft-voiced Mrs. Fay Edgar, hostess and assistant curator of the DAR museum.

She was speaking, as I came up, to another visitor, a young soldier. In Ithaki uniform, pants tucked into sturdy boots, he seemed to belong to a world far from that of spinning wheels, period furniture, and old portraits. But he was very interested, very solemn.



Scotland's Winged Mr. Ramshaw Is a Star Attraction at Constitution Hall

Backstage at the DAR auditorium, Capt. C. W. R. Knight, British falconer and lecturer, introduces his pet golden eagle. Mr. Ramshaw, to Dr. Gilbert Grovenor (center), Editor of the National Groccapute Magazing, and Dr. Alexander Wetmore (right), Secretary of the Smithsonian Institution. Captain Knight addressed the Washington membership of the National Geographic Society, whose annual series of fectures has been given in Constitution Hall since 1935 (page 565).

We moved over to the "parlor section" of the long, high-ceilinged gallery. Silver tea things were set out on a Pembroke table beside a comfortable-looking wingback chair. Near by stood the original desk of John Hancock and, beyond, a Chippendale sofa which had belonged to another signer of the Declaration of Independence, Thomas McKean.

A grandfather clock, a simple early-American irreplace, and a table on which John Paul Jones's spectacles lay casually on an open copy of the Bible completed the picture. It looked cozy enough to imagine a scene of bewigged gentlemen in knee breeches and buckled shoes, sitting there for a teatime chat on post-Revolution problems—say, the hot controversy over Bill of Rights amendments, or trouble with hostile Indians in the Northwest.

In the whole sweep of the museum perhaps the most impressive exhibit is the cleverly lighted portrait of Martha Washington, seen through a stone archway (page 589). A duplicate of the one that hangs in the White House, it was painted in 1905 by Eliphalet F. Andrews, who founded the Corcoran Gallery's School of Art in Washington.

The portrait's red-damask background was made especially to pick up the color of a part of her skirt.

Altogether, the museum owns more than 6,000 items. Mostly gifts from individual members and chapters as well as from many outsiders, this collection is too large to be shown at one time; hence minor objects are shifted about once a year,

Among the most prized permanent exhibits is a copy of the life mask of George Washington made by the French sculptor, Jean Antoine Houdon, who spent two weeks at Mount Vernon with his subject.

Other items always on view include a lyreshaped brooch of what looks like rose-gold netting, but is actually some of Washington's own hair; Martha Washington's teapot, from



New American Citizens W. I Study These Buckless

plains a appropriate to the control of the control

which she served soldiers at Valley Furgi and several worn and delicate spoons designed by Faul Revers

There are earrings which gay Della Madison were: a fragile face triumed sating that once belonged to Caroline (Mrs. Benjamus) Harrison (page 583); a pinch of a from the Boston Ten Farty: and Patrick Boston Ten Farty: and Patrick Boston Ten Farty: and Patrick Boston Ten Farty: and Patrick

And with expect this particle and a wall, and are the manual to the backwise or Villagia to the expectation of exercitar arts exist the past. It has

There are hisplays of old katchenware and china, including rate pink broade, Lowestell and Stationdshire. This cases feature poster brass, and the noted South Jetsey glass, including "witch balls" that sometime were but a linear the windows to caten the sun and keep to log linear low. At other times they kept the out of the sugar lower

I here is also a Revolution-time stadic of a certific and certific of babies' thristening robes, children's of the hioped clothing, and enough dalls and outsito pop the eyes of today's small fry

Finally the soldier in the control of the rses of hard being of the American fight for independence—a Cutdinental Army unal em. Revolutionary reasont swords, cartridge lelis and an early 13-star flar tpage 582). He smiled a we read the carved inscri, otom og an old passe er horn, "The Red Co, t who steads this Horn, will go to Hell from whence he's bett." And I mustered enough impertments to ask Luquestion that had been puzzling me

How did at happen that a years man on the Capital could for I time to vest such a spot?

I'm from California
he told me. "It's no
first trip East, where
everything is so much
lifer than it is back
home. I thought maybe
t could learn something
where we also me
his for that o be war.
Yed it's nice." he
hied, "to find proper
wire are for ace so hard."

Continental Hall the whole building is a museum, with mental the "memorial."

Memorial Hall Lives Up to Name

The impressive americular sents portion or except, is discated to the Thirteen Original States (page 556). The triple force foors the allocate enters commences, to Recolutionary bennes, as well as DAR founders and charter members. In the specious much entennee hall and near by corried as are more that a larger permonal busis to young American Machington, Jefferson, Franklin bian Manys, to mention a few

The restatcher in the way of decuration is a distance, wall-length bus-relief of the Declaration of Independence, topped by a diver reproduction of the famous Transbull painting of the signing. It was presented to the DAR by the husband of a past President General, Mr. to at her at the DAR by the husband of a past President General, Mr. to at her at the distance of the significant of the si

If you are in charted her period furniture, Continental H.... In 18 so we for your le-

Here you it see some of the typical scenes

of early-American households, 'explained my guide, Mrs. Cecil Noron Broy, whose duties as curator of the narseum also include charge of the historic rooms.

latch room is named for the State society which bought it. Various chapters and member contributed the fathistical he continued the watts in authenta Williamsburg colors, and many of the Daughters have distated thereished inautity herborns."

On the grand total we passed through balls lined with glass cases of colorful quilts and covcriets, handmude before 1830. Preping through doorways, I saw colonial late the millione course, und liberaries, un enriv-American kilchen with n sive fregular trace 589): a teme-melinwed bedroom, complete with four-paster bed and there washbowl set: and u charmingly gabled "children's attic" stammer, with tows and re its. There were even baby shoes worn in 1763 and old alphabet plateof a long-list "ABC" age (page 589).

themsing antique fartiers find in these rooms such prized collectors' tems as a chair in which

Washington and Lufayette each sat, the mantel from a bouse where Heury Class lived, and files, flutes, and drums whose marial notes once fired the spirits of tighting colonists

Most curious of all is the New Jersey tool a whose woodwork and farmiture are to estable all ships the bers, and whose stained-glawind was depict scenes of the Revolution. Wood panelings and Jacobean-style farmiture were all made from the reclaimed halk of the bridght ship Augusta, sunk in the Delaware channel during the 1777 bettle for control of the Philadelphia approaches

In the public the State noons may be little miseums, but they are by no manualimited to sight-seeing. At Continent at Cont



Throwser Sparks the Lump of Krawledge

The extensive and the first way of the descriptions in 1919. In the result schools a continue to the feature of ploneers the result schools at the first the first project, the Kate of Start in School at teach of the first of the School at teach of the first of the School at teach of the first of the fir

and committees gather there for greetings and consultations

All over the buildings, in fact, one fines this home to ush in plaques acknowledging done to be to be a chapters, or individuals to over the one the their national beadquarters

I - r resolvening fact that no profesdescribed a part in creatice to sit claim now worth \$7,000,000. At described many a Daughter of describe price of the hat on her head

to a bave ranged from whole structural acts to the timest spoons for the banque, room. In Constitution Hall, for instance, the back of each seat bears the name of a specific longer, many of whom made the presentation as a memorial to a distance of friend

Again, the new tables, stacks, and other equipment of the recently enlarged and modernized Genealogical Library also came from the organization's own tables and are so maked and acknowledged. One of the largest individual contributions made was a bequest of \$26,000 to the library for the purchase of hooks in its field.

Library Is Busy Spot

When the original literary was opened, on completion of Memorial Confidental Hall, its offection amounted to only \$26 books. To-day it holds 39,000 booms volumes, plus a wealth of other material useful to the detectives of geneal my who track down the lost baks of family connections (page 591).

For those interested in woman's part in the making of America, there is a shell of reference books telling of the lives and times of such benefic figures as Deborah Sumpson, who a repertited in men's clothes to fight like any other soldier in Washington's army, or rough-and-ready Melly Pitcher, who brought water to the lighters of Monmouth, New Jersey, and book over the firing herself when her gumer husband fell wom deck.

Even in the despairing days of Valley burge one finds an armsing sidetight on the human character of the community in chief in this

letter to a young lady #amifet.

"General Washington," it reads, "paying been informed lately of the honor done him by Miss Kitty Livingston in wishing for a lock of his hair, takes the liberty of bulesing one, accompanied by his most respectful compliments."

Showplace of the library is the big reading room which now occupies the converted old auditorium in Continental Hall (page 568). In this hashed, high-vaulted room, where the flavor of the past Lagers on in eagle-decorated theater bases. I found men and women bent

over piles of brooks and pumphlets.

"Thousands of people use our facilities every year," said the Librarian, Mrs. Mary T. Walsh, "Lawyers come in to check family details concerning wills and property problems. Hubbylsts spend full working days here, along with our own and other professional genealcylsts. Many retired Army and Navy officers, some of them generals and admirals, are among our regular visitors.

"We're pretty busy now," she added, "but you wight to see us when the members flock in by the hundreds during Congress week

TUS 1

Resides published books and similar formal material, the library offers genealogical researchers numerous other aids, some not found elsewhere.

In air cooled archives I have power fields

incls or attaining thousands of folders of typen and hand-copied documents—marciage certificates, wills, hille and tambstane records. These papers, acquired as proof of eligibility to DAR membership, often hold answers to questions of family ties and ancestors' service.

there is a special room for the Recordak muchine that enlarges microhim roles of off State centus reports and collections of early church tecures. Before it patient researchers sit for as many bours as eyes wall allow, scanning faded games, places, and dates of long-

ago facts of life and death.

In hundreds of bound volumes marching along the suckes I found one huge and useful collection of records anymered over the years in connection with membership applications. It contains summaries of information on the lives and families of Revolutionary War pensives and families of Revolutionary War pensives and which were abstructed from the land-to be-removed originals on file in the National Archives Building.

I the mised through a few. Their statistics seemed as remote as the Biulical "begats."

"But it can be a great thrall," observed Mrs. Walsh, "when someone diaging into such material comes on that bit of information be has been hunting for 20 years...

"Yes, research here coes turn up some funny names. Among the numbers of one Dewey landy, for example, were characters named Pleiades Arastarcus, Octavia Ammonia, and—pelieve it or not—Enryclopedia Britannica!"

Genealugists at Work

The speed with which DAAR genealogists can trace one's ancestors seems at three like magic. I beard of one case where the mention of a name and a brief book into the files of family records produced immediately the desired information concerning a forebear's Revolution my cancer.

"But it's not always so easy," said chief to a read Miss Theodota Wingate, "Decasionally the entire story of an illustrious family may unfold within the pages of a single volume of family history. More than I kely, however, we will spend days or weeks searching out the choose details needed to corrobotate various statements made in applications

for nembership,"

At headquarters 15 professional genealogists work steadily at the job of examining applications. New members have been adnitted larely at the rate of eight to note thousand a year. "Supplemental lines" (proof of relationship of a member to more than one Revolution serving amount annually to more than a thousand

Since there is no limit to the supplementals, and since credit for Revolutionary service is given for ancestors holding even the smallest

of civia posts between 1775 and 1783, some members have established 20 or more lines. About with the credit per the right to dress up in an equivalent number of accestor bars, in addition to the original members to the original members to the original members.

In reverse order, many of the Itaughtertive come in on a sontic at 11 f

I se organization's memberate plist methods which includes at tighter a Note by Hart, the members of log-entity between the whose sulty personality and hold explain made for some of the Revolution's most dramatic history,

On one a asson
Nancy helped a takel
Whigescape from a pursuing party of the Sing
men. Later she horselt
captured another whol
proper of Tories after
as them on her had

first haw does one go thout proving eligibility to the DAR? I asked a state considers Mr. I at a her Quillian Man should I do. for the tradition that a prest-great-greatrest-grassburgher had

seven seems in the Continental Army? The story goes that she to d Lord Cornwalls, who had taken over her farm, that she wished she had seven more sens to be

First, 'explained Mrs. Qu'llinn, "you make up a simple family chart. Start with yourself and draw lines on both sides back to as many incestors as you can, including all dates.

residences possible

the Revolutionary service of an adverse mental state county, or town records, here in our limits, in the Labrary of Congress, or in other metals, had been been been in a face that ughout the outsing process I key construction the outsing process I key construction of the metals of the original Census to a decide of the last the N. Gonal Archives Building.



A Yard of Honors Describes a Busy DAR Cureer

wann, that and the distribution to the property confidence being the property of the property

Perbapas or have old family letters of puttures show he family links. You may get a tall state ies from State capitals around town or elses.

"As to family trud tons," she smaled "they are the back tof all to yetal."

I agree the resist even find that our sections are exercised to be used to 77 other families.

Complex Organization with Hard-working President

Short its beginning, near a 400,000 women are estimated ancestral to hi to DAR membership. I had the 17.00 to active them are are banded into 2.000 to a paces, not a most only all ever the United States but in Alaska, the Canal Zone, Hawkii, the Philippine.



DAR Gill Books Build up a Boys Clab Library

Hady, West of the Fully and condition was sured to be built built of the Chine.

performant to the performance

The second control of the second and a t

Business by Mail, Meetings, and Germa trees

permanent and j contains and it is made in the regularization of t

nent, they are not then the the the plant of the vertex of the period of the President Control of the Control of the President Control of the Cont

A proposed to rainfel the Propositional Constitutions of the control of the contr

the project of the president feeting to the project of the section of the section

Naturally with these duties, Modam Presi-

dent has a voluminous correspondence. When I saw Mrs. Patton in her pleasantly feminise office at Washington, she was about to take off for a nine-State malwest and western tour of duty. There was a hundsome bowl of red toses on her desk. There was also a type-writer at her ellow.

"We're a little shorthunded this morning." she said, 'so I'm using my 'bunt and week'

system to get out some must mail."

What the Daughters Do Falls a Book -and More

What the Daughters Do is the name and subject of a 12-page booklet published by the DAR.

From national headquarters they issue the DAR magazine, containing material of current and historic patriotic interest, special acticles,

and organizational news-

They put dish a metably Perus Error, to gove DAR press chairmen. They print and distribute many other publications of all sorts, including patriotic posters, pictures and activity brooders.

But no qui k sommaries or skeleton lists can do more than suggest the broad scope of work that goes on within each of the organization's chosen historic, educational, and patri-

otic fields

The traveling public from Maine to California finds the DAR signature on more than 200 historic buildings preserved through this society's efforts, either in cooperation with shorts at, in certain cases, alone

Some are owned outright by local thatters and serve as chapter houses as well as historic museums (pages \$70 and \$95). A number have been placed in \$1000 and \$95).

and State authorities.*

Reproduced or painstakingly restored to the past, these restorations include log cabins and mansions, forts, churches, taverns, school-houses—even an apothecasy ship—that early America knew. Fach holds its own hit of the American memory.

To pick a few at random, there is the mugnificent Kenmore home in Frederickel arg, Virginia, where George Washington's sister,

Betty Lewis lived

Burgham Tavern in Machias, Maine, is a teminder of the colonist prot hatched there for the capture of the british ship, Macgarette fac plot brought about the first sea buttle of by Revolution.

And at Yorktown, thanks to the Daughters' donation of appropriate furnishings, you can see a typical planter's parker in the old Moore House, just as it must have looked when the articles of british surrender were drawn up there on October 18, 1781 †

At the first DAR meeting the organization's last oric work was launched with a resolution to support the then much-discussed project of a burial monument to George Washington's mother, Mary Ball Washington

Since then, the Daughters have set up name than 12,000 markers at old trails, battle-grounds, Revolutionary graves, and other sites (page \$67). They have rused a Pilgram Memoria. Fountain at Plymouth, Massachuseits: In a dozen States, along the National Old Trails Road, they have put up a monumental Madonna of the Trail in honor of the pilmeer mothers of covered wagen days.

Among current projects is a memorial helt tower to be huft at Valley Forge. The tower will house 49 hells and is expected to cast a quarter-million dollars. Feminine postscript to the following commemorating the hunger and hardships of the temple winter of 1772.78 is the fact that some of the facility come from the sale of a cookbook of the Daughters'

favorite recipes,

Less obviously, but stendily, the routine work of collecting historic and genealogical in format on goes on. Old records and manuscripts, personal diaries, early maps, and similar materia, are gathered. Members write papers on people and places of past significance to add to the national file made available to chapters for study and special occasions.

As an aid to tombstone research, headcuarters even issues practical hants on how to bring out worn and buttered lettering by the use of thack and other substances. I ropied down a couple of the mure armsing epimphs that have found their way to the blowry:

there has not down the anoma fruit.
A sun of Mr. Am a Title....
The means employed his life to more fluored, him by flood to the grave.

And there somewhat macabre lines:

Henceth this dost jes the moldering crust (if I leaner Butcheer Shower).
We'd vitered to for orthologies, publings and tarts.
And the horizible trade of the over.
When she'd level hone encart,
She made her hast past.
A past by her bust and much praised;
And make a dart pas.
And make a dart pas.

DAR Schools Change Life in Mountain Districts

Not everybody knows that the Daughters' educational program provides schooling for

* Sur Thursen of Fach Patriot's Lieuntion," by Profesick G Vosburgh, National Generally Mara edge January, 1949

by Athert W. Athend, Nathurat, Georgeonic Maca-

toxa. May, 1942.

thousands of young Americans each year. Besiles operating two whools of its own, the organization part ally at prorts a dust bother nutherized schools are codeges around the country, and maintains a large student-bount tond.

In addition, there are special DAR awards presented annually to the man with the highest standing in certain subjects at West Point and Annapolis, as well as at the Merchant Martine and Crast Guard Academies. Once these prizes were swords. Today they take the form of \$100 Government bonk, or the equivalent in binoculate of some such suitable article.

DAR caretributions give a lift to two American Indian institutions—St. Mary's High School at Springhelm, South Dakota, where Incom girls receive cocational and home training, and Escone Cobege, in Oklahoma, for both lays and girls. Dacone is the cally accredited school for collegate work exclusively in Indians of all tribes in the United States.

To qualify for ald, a school must be endorsed by the State Daughters, investigated by the National Society, approved by the Contmental Congress, and family, must fill an

educational need not otherwise met.

On the eve of World War I such a need cried out to the South Carolina Daughters from the mountainous "sunset corner" of their State, near the Georgie-South Carolina border. There, in the Tamassee Indian region, where an American Revolutionary general, Andrew Pickens, had subdued hotile Indians, the South Carolina chapters established the fast independent DAR school.

Called Tamassee, it was destined to bring "back learning," resentants training, and health guidance to the descendents of American pioneers long deprived or these essentials.

by isolation.

Through the years the project has steadily extranced for Ly Nation water DAR door tions and some outside of L. One early betweet by a sympathetic mountaineer turned up as a backet of times, nicke a, and quarters,

Tumassee, "Enterprise in Living"

Today Tames-ce on upies hundreds of acres of woodland, or hords, gardens, and pastures. It owns cattle, farm machinery, and a power plant. To its 400 day and bearding students it offers home economics, first aid, practical farming and manual training, along with acatenic subjects (page 575).

An "enterprise in living" this school has become an integral part of the community. In its chapel the neighbors pather for Sueday services. Its Health Bloase is headquarters for the county nurse, who "jeeps" from there on her regular rounds of mountain-trail hones.

and every year holds reunion check-up there for mothers and their new babies,

Mastrians, stimulated by the bright promise of Tamussee, a second school was organized along similar lines at timut, Mahama. O in I in 1924 and primed the Kate During South in honor of Alahama's first Resent, it too has grown productously.

Some \$50 students living on Gunters Mountalu, beyond the reach of the easy transport denore settled communities, are now er rolled for vocational and other courses reaching to

seni ar-hash-school level.

Patriotism Key to DAR Heart and Prockethook

Key word to all DAR programs is patriction. The Daughters yield to no one in the renth asiastic support of literally dozens of projects promoting the principles and display of love for America.

The teaching of more American history in the public schools; increased celebration of American holidays; the widespread (and currect) use of the American flag—all are constantly being urged by the organization. Last year, that committees distributed to schools, colleges and other institutions pearly 6,000 flags, tanging from small ones to a gian-sized gift valued, with its flagpole, at \$1,000.

There are national, State, and chapter committees working for the advancement of American music and for the development of motion platures ocaling with historic and appropriate children's subjects. Steps were taken this year to present an appropriate dures of what, in DAR opinion, is the first film for children between the ages of eight and twelve

Since 1895 the DAR has sponsored the Children of the American Revolution, an affiliant against that of buys and girls whose a stick ry requirements are the same as those of the parent society. Its headquarters are in Constitution Hall (page 590). Many CAR members, now manhering about 12,000, transfer to the TARK and the SAR (Sons of the American Revolution) between their 18th and 22d highlights.

Also under the Daughters' wing are more than 11 000 Junior American Citizens clubs, comprised of hundreds of thousands of Loys and garls of all cases and creeds. Drawn from public schools, orphanages, reform schools, and various community centers, these junior citizens are tright a yalty to the American system and a tizenship duties, while enjoying the fellowship and entertalument of group activities (page 578).

A bint of the organization's femining interests is found in its support of that H me

Makers Ch.Ls.



DAR II a Officers Meet coder the Postruit of de First President General

The the social section of the first of the section of the section



Gree the Someth DAR Congress

Cirls Campa a Today's Uniteriors with Condingues Dress





Indiana Room House William Henry Harrison, Indiana Territory's Piest Governor II of Prestent note down on the 2 we tracked of Mr. Benjamon Horsen with of his grand-on the last control of the control of



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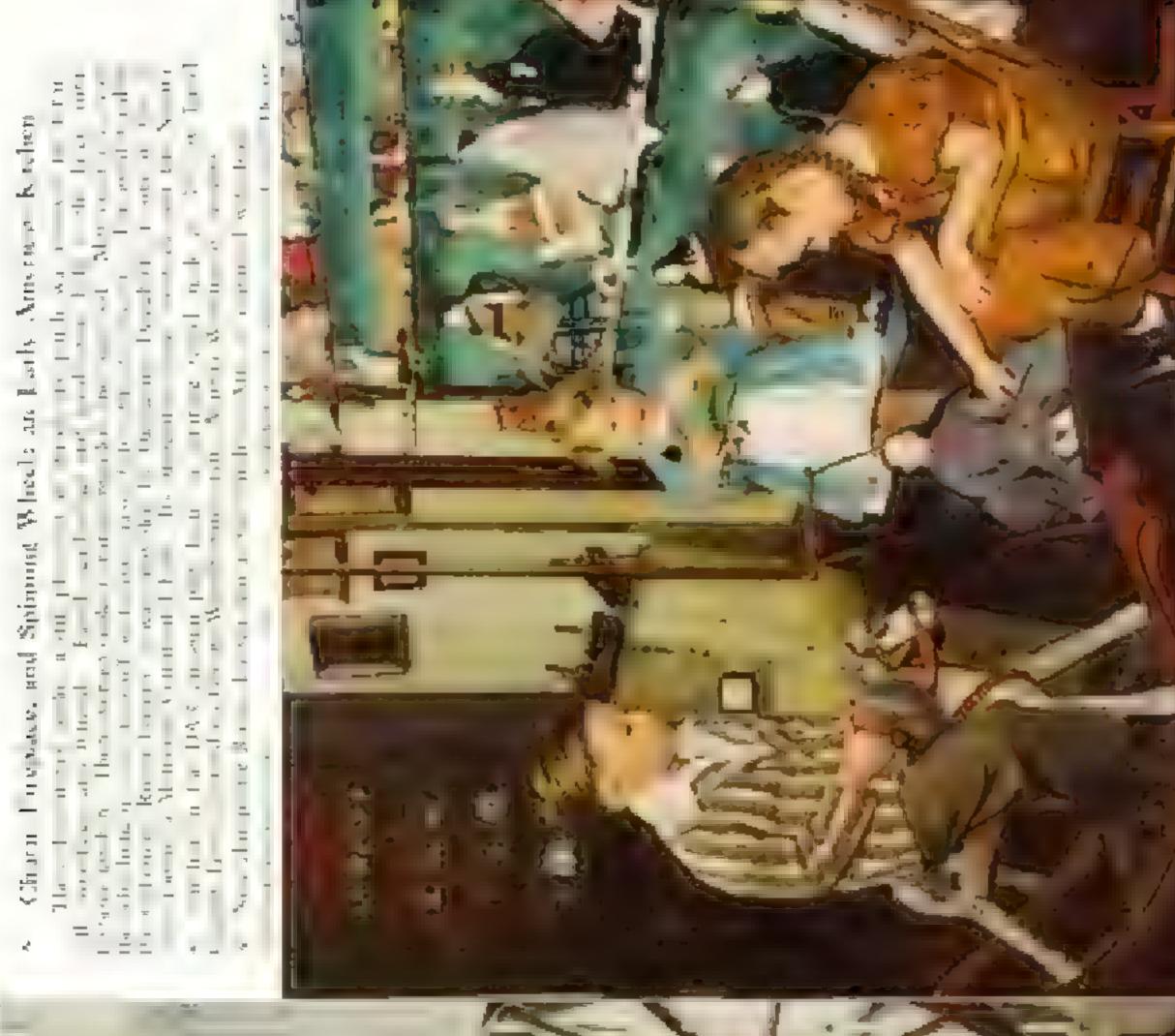
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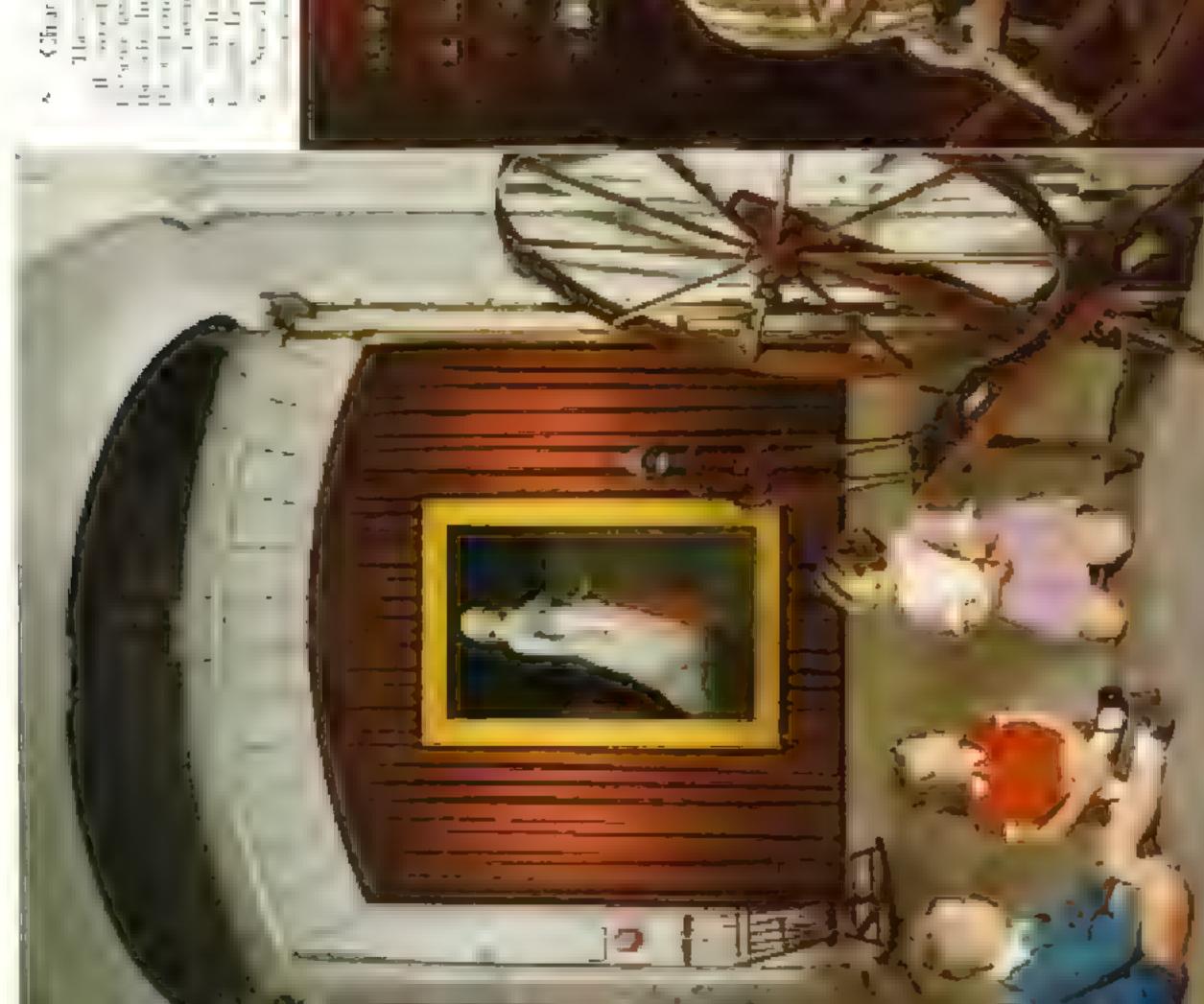


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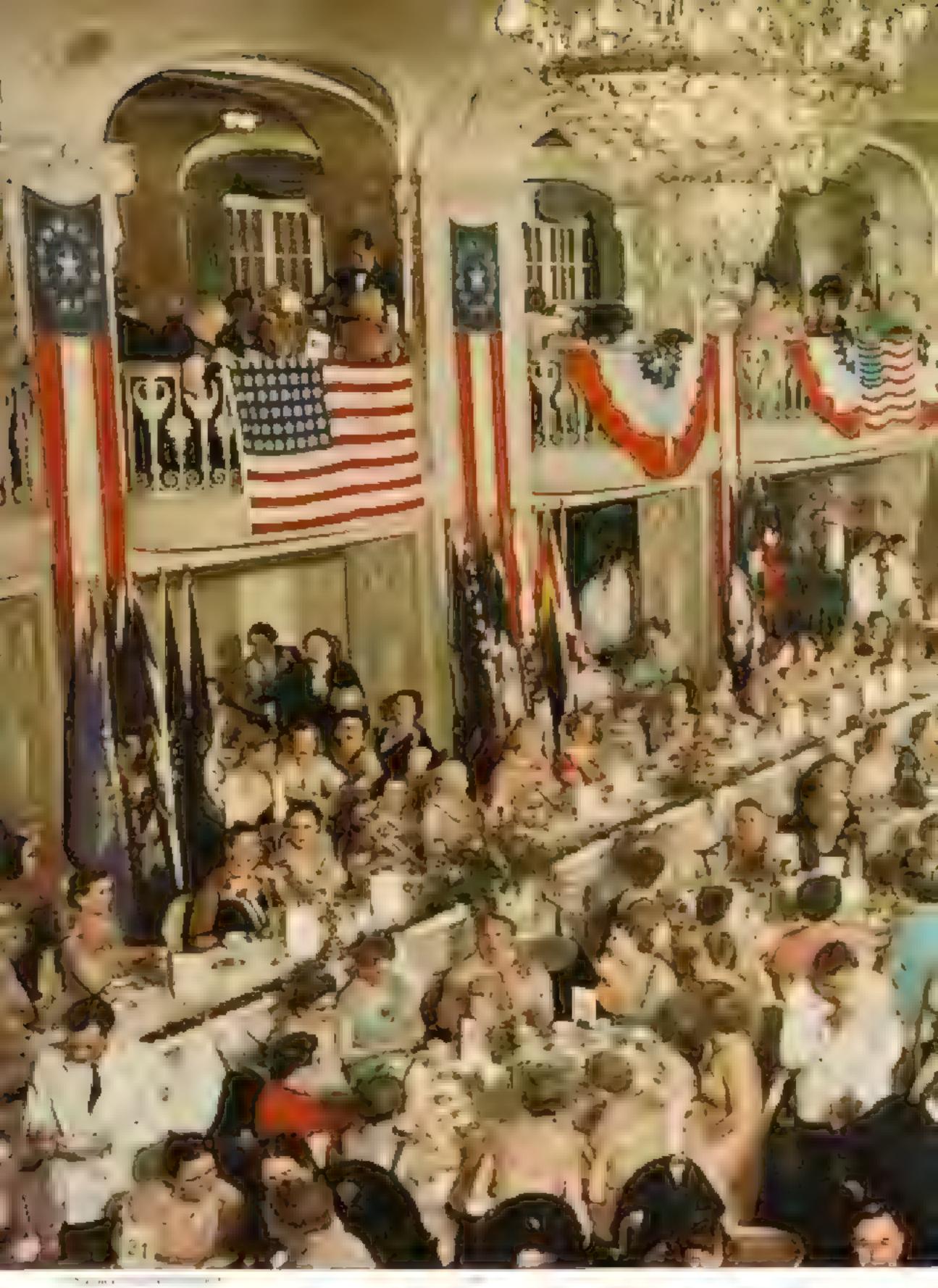
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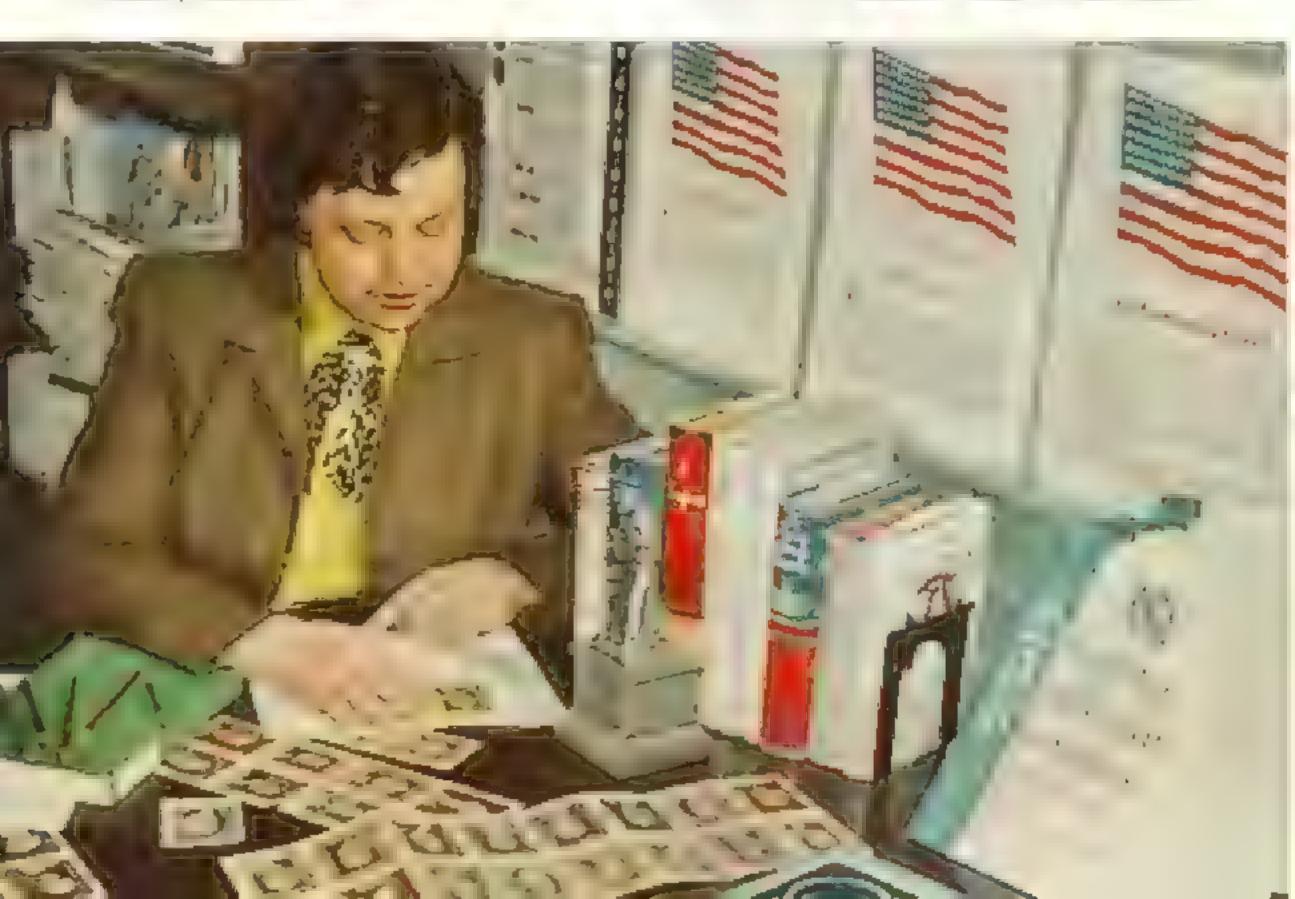
With Music, Flags, and Howers the Daughters Sax Condeby until the Next Year.

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DAR's National Defense Office Mula Resum of Patriot's Materia

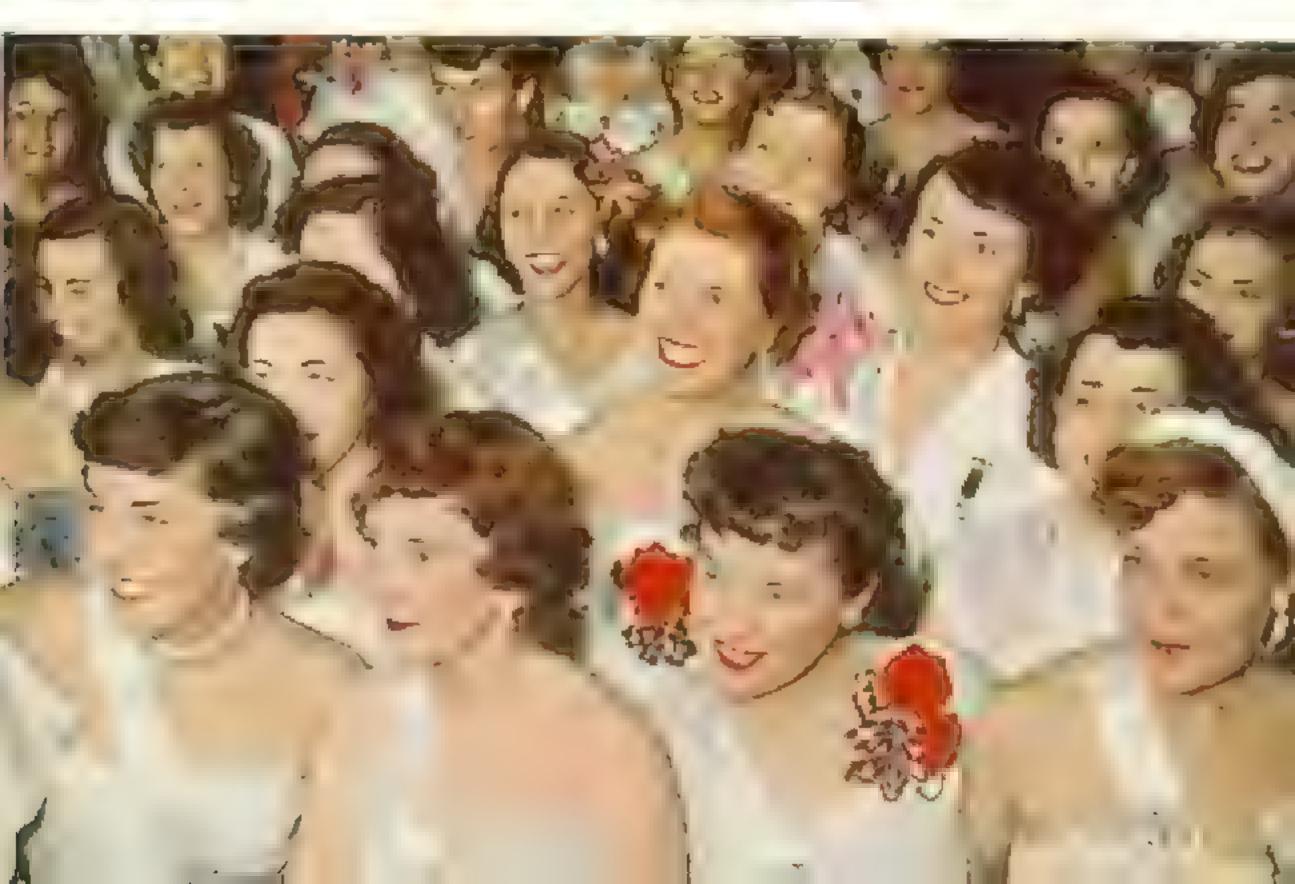




A Bit of Old Natchez Mayes to Washington He identifiers

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There are also committees concerned with the state of the Nation's natural test proces and egislatlini on the subject. As a conservation project of their own, the Dar globers recently purchased a grove of redwoods in Del Norte County, Culifornia, and concared it to serv-

leemen and we men of World War II

One of the best known and roust interesting of all DAR contributions is the distribution of its Manual for Citizenskip, a helpful guide to dieus and foreign-born citatens. A sample summary of American history and Government, plus information on bow to become a citizen, this booklet has been given away by the millions sence it was first issued in 1920. It is published in Is languages, including Chinese, Armenan, Yimlish, Babgaman, and Russian (page 574).

The Attorney General of the United States, J. Howard McGrath, addressing the opening session of the Sixficta Congress in April, 1951, gave unstituting probe to this and allied accon plishments of the DAR toward 'fostering and expanding social justice in the United

May 184

"Your patroon activities with respect to new citizens," he said, "are a matter of which I have personal knowledge, as the immigration and not reliastion functions of our Government are carried on under my supervision in the Department of Justice. Your society busbeen of immersurable and in making each new inizen conscious of the greatness of his privilege of being an American citizen, as well as of his cidigations and tesponabilities as College of the

"In addition, your spoosership of playgrainds and youth centers, your assistance in settlement houses, your educational program, which affords opportunities otherwise completely lacking to uncerprivileged lays and gris, your provision of endad and meanual clinics and day parseries, and your courte James American Citizens prajatum baya belped but only to build constructive citizens but also to construct juvenile delarquency and to insure that the serie of coal buildent tail on Lastrigadiy Sod,"

National Defense Committee Covers Mr. da Terraire

At an office in the Administration Extending the incorreg reporter finds stud amother for

Crincline Skirts Swiss at Columned Headquarters

Architects rangular Mannaged Continental Hallawe. By porting one of the world's proof beautiful. Its thereen columns, arranged in a west following sock unted to the Thirteen Unional States. Washingt b Monoment looms through the love-

to a facilities and the facilities of the territory and district of the facilities o

reaching field of DAR operations in the office of the National Defense Commuttee.

"We are the alearing hause," in auxily explants symmic Mrs. Frances Lucius, executare secretary of the National Defense Committee. tpage 5944. But the work she guides for her thairman and committee covers more ground

than the asscription indicates,

This committees duties involve not only cooperation wish the community in numerous civic thores and encouragement of education and citizenship along lines of the American tractition. Its leaders also gather and spread information on United States military and Internal preparedness, sat the Notlon's damestic and foreign policy, and on State and national legislation concerning matters of DAR interest. Prequently committee officers tegrify before rangressional hearings concerning pending bilis

Since such activities come under the 1940 Federal Regulation of Lobbying Act, Mrs. Lucas, as the responsible executive secretary, files a report for the labby ist register published cuarterly in the Congressional Record.

It shocked some people," sae smiled, "but it was the law. Not everybody remembers that lobbying, like propaganels, can be good or bad,"

Visitors Stream Theoreth Office

Mrs. Lucas was an active member of the Coast Gaard Emergency Volunteer Service during World War 11, and on one occasion suffered frozen hands while besping to exacuare employees from a minimum plant in danger of exploding. Her present assignment may be less exciting, but it could hardly be catted Had

Hesides attending a continually ringing telephone and seeing a stream of visit its frefired Arms and Navy officers, Congressmen, representatives of civic and patriotic groups). she keeps an eye on country-wide legislatical of DAR concern. She gataers information for DAR resembling on national-defense maders, to be submitted for vote at the minual Contimental Congress

She also fell we news columns and editorial pages of newspapers in Washington and area red the country.

Whenever passing we cooperate with the editors," she explicited, 'by sending them information on subjects along our line which we teel they may wish to pass on to tack readers. "

She palled out a clipping from a pile on her cress. "Here, for example, is an ecitorial from the Washington Times-Herold It is collect 'Packaged Thirking,' and refers to material which we had muce available to the paper, warning wormen's organizations agultist guilli-My accepting ideas now twing channeled to

them through jump panch control points."

In its routine activities the DAR National Defense office sends out each year, to a regular mailing list, more than 100,000 pieces of patriotic literature. Together the chairman and executive secretary prepare monthly attacks for the UAR magazine and Press Dagest on such subjects as the dangers of communism and United States alliances with other nations.

This last subject rates considerable space, for it is DAR national policy frequently expressed, that any form of world government avolving lass of national sovereignty is an-

clesimal des

Stal other matters that concern this office have to do with American groups and inti-viduals cited by the Government as supportsive; or certain testhooks and other pulsications suspected of running counter to the

American Way.

We are continually answering loquiries from our members all over the country regarding the standing of persons and pulsical ms." Mrs. Lucus told me, "For their guidance in selecting speakers, we see that every State chairman of me National Defense Contractive is supplied with the Covernment's countries, must ets and other persinent information,

"Di wit In the basement," she added, "are calcinets packed with data on communism alone. We were one of the first organizations to collect material of this sort. Later, I was much used by the FKI and Un-American. Activities Committees. Back in the twenties, two DAR members even infiltrated a Communist camp and brought back notes of the goings-on to the home office."

Long Lost of Wartime Services

In connection with America's ever-all national defenses, the DAR long bas arb ocated a strong program of military preparedness.

When the country has been at war, the Daughters have been quick to offer their services. During the Spanish-American War, they initiated and belief lauted the first official corps of women nurses for the Army and Navy.

A DAR Hospital Corps committee, sparked and directed by Dr. Anita Newcomb McGee, to k on the official assignment of screening the flow of a pheations pouring the to the War Department from women volunteers all over the country. Nearly 5,000 applicants were considered, and about 1,200 of the masses selected saw active duty.

World Wat I contributions of the DAR amounted in more than \$3,730,000 in cash and other donations, including gats ranging from mitodances and field kitchens to kultted

garments and tobacco.

Besides sembing land to the Government

for emergency effice space, and getting its members soldly behind Liberty Loan drives, the organization was active in all serts of war relief at home and abroad. One of the accomplishments of the "DARlings," as French Ambrestofor Jusseland called them was the restoration of a devastated French village, complete with farm equipment, livestock, and a new water system.

Again, during World War II, the DAR piled up a new list of services: 26 multipolical for Red Cross work; nearly \$400,000 for the blood plasma fund; blood donations

from more than 13,000 members.

Ships' Crews "Adopted"

The Daughters outfitted and sent abroad almost 100,000 "buddy bags." They "adopted" the crews of 89 LCl (Landing Cratt Informy) we sels, for special attentions and either hours of several attentions and the services were portable X-ray units for hospital ships, an electric pipe organ for an aircraft carrier, and a radio distribution system, with 2,500 headsets, for a veterans' hospital.

Today, as the Nation gathers its powers for the long and tough job of winning the prace. DAR headquarters once more is organizing for service. Word has gone out asking all members to sign up for whatever civilian or military defense activities are under way in their communities and to be alert for any

en organis.

there in Washington the Daughters tell a story to be added to the vast accountation of Capital faxical fore. An out of two member, it seems, once asked a taxi driver to take her to the "Revolutionary Building."

"The what?" he asked

You know, the headquarters of the Revultation,' she told him.

Sorry, mujam," came the paswer. "You efter find another driver. This call don't get into that kind of traible?"

It isn't likely that you will see this year's model of revolution at DAR headquarters 177t D Street. But you do find there a good deal of determination to serve their country's needs as the Daughters see them.

In a less perduna world and time, back in 1900, an early President General had some wrotes In say that are even more expressive now

"America's best possession," Mrs. Daniel Manning told the Ninth Continental Congress. "Is the devetion of her est sens. . . We New Yorkers. Californians. Purtto Bicans. Alaskans, and Hawaiians claim her government and protection, and she in turn claims our devotion for her protection.

"I his is the mutual link that hinds us,"

Iceland Tapestry

By Defina Clark

OUTLL need a passport, a cockind to all the assistant galashet—and a boundless capacity for astonishment!"

The nighter executive harefed me as I asked

about the trip I planned to Iceland.

I four the was right, especially about she last. Our swift four-engined air clipper was perhaps inspired when it was christened Reekiards by lovely Madame That Thers, water of the Icelancic Minister to Washington. In carry sailing times, 14 days would have been fast time to Japland, about midway between New York and Moscow (map, juge 604). The plane headed northeast-by-cast and ticked off the 2,670 m les to Kethwik Airport, on the southwestern shore, in just 13 hours

Living Ica Scaure Frazes Lava

As the plane approached the crazgy is an l. we saw far ahead gleaming it e chomes cappit I fry volume mountains. Then the valleys glaciers descended like frozen waterfalls. Below us crystalline snow glistened on elsenyblack laws. The incred bly blue sea lashed the coast line and spread over anciett lava roofs that turned chalk-whate from to lace

The small contingent of United States troops which harded last May at the same number. came almost as capally, in air transports. The airport, midway between Ernest Harmon Air Force Base, Stephenville, Newfoundland, and Rheln Main Airport, Frankfort, Germany, is a forcal point of European mulitary air transport. Thus keland's position still is of the utusos strategic importante, a perfect steppingstore on the great circle nir bute, half way between the Old World and the New.

Leland is a morel er of the North Atlantic freaty Organization, The United States er sops landed at the principal little island regulale's invitation, just as they had in much greater force in 1941, daring World War H.*

The 30-quile drive to not It del gave us a ewatch of the feelandic scenery that was to come. Bluck, contacted large fields, correlieved except for huge snow-covered to ublets, spread in all citectums. The desolate acres. ome malten occass of building rock, bucked like a harricane-whipped see which had such

dealy petrified in all its furgati

The stronge listsom of fare and ice was apparest as we approached the capital city. Reykjavak. The ground was frozen, but all around we could see steam rising through the thin crust of earth from the subtermmean volcamic fires below. We saw that is enjoying a warm pend directly adjacent to shaders on a natural he rink.

Reskjavik is it me to more than one-third of Trebund's people. Now well equipped with American refrigerators and washing machines. the city claims the distinction of having been chosen as capital by the gods themselves.

Accepting to tradition, when Installing Arentson, a hardy chieffant of the 9th century, approached Lieland, he threw averband the carried calc pillars from his blub sent in his ancestral half in Norway. As they splashed into the sea, he sowed to settle permanently where they drifted ashord.

After a three-year search, the swol an beams finally were found in a bay in southwest lifeland, near but springs which sent up what clouds of steam and vapor. Arearson called his rew home Reykjavik, "Smoky Bay," and

it has been smoking ever since

I was number at the extreme diversity of

the city's bulldings,

I movem martment section is flunked by dwellings of contagated iron and wood frame. Most of the houses are made of reado ced concrete, as all building materials except stone, gravel, and sand have to be imported.

How the Irelanders chevish the few Ires they have! Even if they were large crutight to provide lumber, they probably would not be cut for such a mundame use. "One of our great patural resources," Bjarni Gudmundsson, it the Foreign Ministry, tobl me wry y. "Is defletation! "

Farmers Reap a Drillmond Harvest

The farmers in the remote section of itract. have drawn loss (of a long stretch of theathgrous, stony scalement lying many poles as a from their farms. They reap a rich harvest if building materials in the weekage of Reclander and other boots washed ashure.

The houses (one I saw wore a soil roof with grass growing out of it) looked bury and bare at first, but soon I felt that they were exactly right for their settling. Bright paint on the mostops gives color and makes up for the lack of trees and landscaping,

functions calcareage spar, one of Iceland's few minerals, is ground and mixed with said. stone. Added as a rough faish t concrete

houses, it speakles in the winter sun.

"Please to I your friends we doubt live in iglors here," an leelander imported me. "And while you're about it, maybe you'll say we aren't overrun with polar bears, either," he

* See "Ancient Defined, New Paris of War," 71 ярды, Харыман Сроппарник Масалия, Дир. 1941 -

1 For in the National Glovenier Macazine. 158 alking. To j. Across, begond?" by Jackel Wyle, High froom, and "Jaland of the Sages," by Earl Hansun both April, 1728

added. 'Sometimes we see there in the spirit g. if they drift ashare on a moving ice floe but it s a rate treat to get a glimpse of one."

Cleanliness is the city's most atriking there atterland. No askes or dust mar its appear-

dhu:

It is a paradox that the subtercarean heat which so often has caused revust it on and nastry in the past, has brought keeland one of its greatest booms. Hinge natural farmaces which require no human stoking, heat on ergan ord water to a high temperature

Notice Heats Reykjavik Buildings

This had water escapes to the surface in boding springs. In manufacth pipes it is led to miles to a pumping station and then into quater-million-gallon tanks squalling on a high hall on the outskirts of Reykjuvik. From there it those into radiators at about 175°F, keeping the city's homes and others cozy even in bligging weather

Note thows from the hot springs at more than two handred gull and a minute, with more aways on tap, hormerly Reykjasis, but ner a bout 35,000 tons of exor otam by priced insputied challen by year. Now she's spic autopath, with no chimney sweeps to pay. There's counch bot water left over to warm a glistening, taled swimming pool that is in constant use, summer and winter

Men and women in the business area were well-dressed and prosperous looking. Some were on their lanch Lour from the small fast-bries which produce clothes, snap, soft frinks, cerup its, or furn ture. Others had just walked the block and a half to town from the basy

ushing wharf and shippard

The lettan lets we not were hand-one an spletulidly built. They looked as if they might have stepped right out of one of the Viking sages. In most familiar four tales the her actains of the prince deliver the princess In many Icelandic tales it is the young princess who rescues the hero

The descendants of those ancient heroines, who, with their men, survived centuries of intermittent volcanic cruption, earthquake, fairing, and plague, continue the tracition of strength condition with beauty. Mosters feelingers are usually fair with blue eyes and

light complexions.

One of the sagas tells of the birth of brunette twin sons to a weaking and powerful early settler. They were born in the absence of their father, and the norther was so as triped at their father, and the norther was so as triped at their dark completes a that size exchanged them for the fair-baited suss of a loods on a in the household. The twos were gazen the surname Medyarokion, "Hell s-skin," inclusing that for a long, long time Icelanders have preferred bloods.

There is nothing cold about Icelandic hospitality—the people are apt to be rather reserved with a stranger, but his transformation into a guest, their thoughtfaluess knows no bounds

Morning coffee at B.shop Sugargeir Sigardsson's was a memoral in party. His home, like that of almost everyone in Reykjavic, flaunter starched, immaculate white-lace curtains of every shiring window. Inside, by and smulax were trallised over a corways, a green and laviting welcome.

The Bushop's attractive wife received us in the charmon pational dress (page 615)

The hour cous repast introduced us to flaky pastries, homemade cookies, and bread freely baked in an American oven. The electricity was generated by the current of the pear-by twee long.

We tried the ever present skyr. Made of cow's milk, it testes like a combination of this whipped cream and smooth cottage cheese. "An excellent baby food," out bost told us, "because of the calcium content," It is also an excellent tourist long—because of the taste or list.

The lead in heland is superb, especially the fish-fresh-chaght and sweet. Ordinarily, fish is my last resort chance on a meru, but makes kjasak I could not get changh of it.

We sat down to a sweegels bord Languet that thered 13 kinds of sea food, including hard-paker (a dried fish with a matke flavor), and 14 varieties of west and fowl

"Angel Shrimp" a Special Deliency

My special choose was a tiny, delease, palepick string, no honger than a laby's pasy ingernal, appropriately called "angel shring." Served with a special sauce and piled on dark, rub breat, if made me was too stay in Iceland force of

The water in fictand matches the excellence of the table fire. Sparkling-clear and filtered through many layers of potons lava rock, it is so pure that it can go directly into our batteries without distilling.

After "tea" at 11 o clock, It elimines break the long wait between 1 o clock lanch and 7 o'c rela damer with 3:30 "cooker time." Then they building their awart touth with fancy tarts, cream or thorelate alled, or, in season, will strawberries and mountain bluebernes

The sun streaming through the windows of the Itishop's dining room lighted up walls literally covered with excellent paintings.

to many homes hong convises by Johannes whereat, Joh Stelansson, Joh Rogill crtz (page 625), and subsets that reflected the locander's intense lave of his country and its majestic beauty.

Scenes of fishing coves, glaciers glowing



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leeland, Arlantic Steppingstone, Lies about Hartway Between New York ma Mount of

Icehard's name is medicading, for an arm of the foul obteum worms to choose and propolaril stand covers are eighth at as 30,750 square if the Anhana through the contains have our through a later part of stand with love. Population is sparse—three pursons to the square in less.

the statue unveiled in Philadelphia in 1920, it depacts Therium Karlselui, as adventureqs Vising, and, according to the sagas, the first white man to settle in America with his voting wife.

Long before our consistry was even a gleam in Columbus's eye, but continent was visited a billion by Leif, son of Eric the Red. Karlsein's son, Snorn, is said to have been been on the North American Continent, possibly in New England, in 1003. So, if the story is true, the first white third tops in America was an Iselander.

The most comfortable thing about the Hutel Ring, after the heavenly light and warm eider-cown quits and the intense tuiet filling the hule, was that everybody space buggls.

Reykjavik boasts theaters where American nevies are taken straight, with no chast of acelandic sultitles. Probably the six-year stay of our United States troops during World War II helped perfect the "American" we beard everywhere."

Many Icelanders knew Stephen Foster by heart, and were as a stalgic about My Old Kentucky Home as if they had been born on a plantation instead of in a fishing cove

We heard temnants of Yankes wisecracks on every hand, "Let's of here, Hukla, and watch the flords go by!" Our hoys learned enough Itelandic to call a girl a stable, and

were successful in talking many of them into noly wedlock,

American soldiers had their influence on the ownetary situation as well as the matrimonial. Our army command used local labor for construction work, succe feeling has neither army nor many to draw on, having declared herself permanently neutral

The unit of currency is the bring, which is cuted at about to to the dallar. "Working for the contract of a known as a proof of the proof."

Notice: The contract of the contract of the proof.

With the high wages paid at the A o read lustallations, and little to spend money on, praces rose tapiday. The present inflation, therefore, to a certain degree as due to the unitax of the phousands of men who were invited to enter Iceland to protect the No. - e weted "unen kable girerall carrier."

Choice Handierafts Sell Despite Inflation

The cost of kelande brong has increased temendonally since prewar times. For in stance, United States distributes, sold at a Government monopply, cost 73 cents a pack. Most things cost about five times what they did better the war.

The severe rise in prices, however, serves

* See "American Soldier in Represent," by Cosporal Lather M. Chovan, Northwest Boothoodin Manager National Res only to challenge the visitor stalking targame to take home. There are shops full of sourcenir handkerchiefs, bockmarks, pillom ises, al painted or embroidered with look adic scenes There are desk sets beautifully carved in wood

Ly the sculptor Rikarian Joneson,

There is French perfume minus our American luxary tax, and bubble like glasswore from Czechoslovakla. Thurz are zealskin gloves and purses locally made, as well as sheepskin rugs and both mats. Handraide wonlen mattens and sweaters, using parterns handed down from saga times, line the shelves

The economical higher can find beguniant silver, blue, and white pelts on the for forms that dot the island. The raw far is relatively. mexpensive, especially minus our lax, and it

can be number up here at house.

lorizado cider down is a choice offering in the shaps. The female rider dick placks the valuable down from her breast and uses it to line her mest. It is collected at regular intervals. The pull skeping tage made up for ting babies are ideal for rock-a-leye purposes.

Any mother can delight her little girl with a stall diessed in Icelanoic costume, like the ne that Mrs. Old Johnson sent home to mine, She will have the blond hisids ropes, and Iwined ander a velvet tam, and the sequinal dress podice, laced with gold thread with he f Lke filigree

The clausing yet delicate filmree bracelet I could not regist in Reykjavik meant more to ne plant I went to a jeweler's to see the shining silver wire actually curved and blazed

at a links of leaves and Jowers

Go beundur Guduason is considered the most skidful sold and silversmith of the cometry. He learned the reaft at the age of 15 from his father, and has been at it himself for 50 years. He told as it would take two days to make the silver belt that is traditional with the pational dress. He has corrusted some to driew 107.13 as dring an drive commission aller lacings, authors, and criminents,

It seemed supprising to find souths in Icehand, a country with practically no metals, until we write told that the first settlers trought much silver with them in their small lands. They chose it because it took up very fittle space in comparison to its value. In this early they it was so aboutfant that the beares

of temples were covered with it,

Weather Changeab e but Not Severe

The weather was wonderful for our trip to the university, bigh on a full about twenty minutes from the center of town. A dry so we stystallizing as at fell, and dredged the city with sparkling powdered sugar

The weather was our of the most amazing and phrasant surprises of feeland. The colifest thing about the country is its name. When we hok off from La Gunrala Fiell, on St l'atrick's day, it was 31° E., and when we landed at Keffwek it was a reatening \$1.,

An sum of the worm Gulf Street markes the climate like that of southern Canada. New Yutkurs often shiver in winters far more severe than those in Reykjardk. January is the capital's coldest month, averaging about 32° F. Chicagouns indute an average of 25°.

Average summer temperature is $53 - \Gamma_{\rm s}$ Mercurial changes are the rule. Twenty-four hours' worth is sufficient to give you a govesample of everything the weather has to offer

The early morning may bring a day that is sumay, crisp, and invigorating. By 11 o'clack the skies may loose a winter what so strong you cannot stand upright while crossing the s reet. During a beavy storm, with a wind blowing at top speed, it shows horizontally,

Leeband Warms of Storms

The Meteorological Institute In Reykjavik gathers information on weather conditions in various parts of feeland and from foreign stations, broadcasting 34 hour forecasts two or three times a day. These are of inestenable y a storms coming from the west are a rely first discovered around feeland.

The buggish joke about the continual radio s and weather appropriately from I coand implore her to stop exporting cyclumes—I a se al enter from instead.

the functed and body lighthouses around. helands shares an entriners of all pations

who ply the perilure North Atlantic,

The new I naversity of Iceland, with an enmilliment of 6000 students, was high by a people. who like to take a chance. In 1933 the Goe estimant in horized a national lettery to colect a landing fund sold 75-cent tickets, and each in 19th paid lucky winners \$25 to \$15,000.

The educational gamblers have full a treatern ext quis consisting of a me in building.

a dormitory, and three other halls,

In ususual source of revenue for the criversity was a downtried move theater operated by the faculty. When we were there the cash ingisters were ringing to the tune of a tapest it is of For It hom the Best Talls

Practically everything about the university was made in Iceland. The rechiels have stone and granite walks are stadded with polished sen shells. The entiance dome, large as the on sparkles with Icelandic only and it's discent nother-of-pearl. The beige faculty longue, with large view windows overlocking the lase where skatting chialren whirl through their figure cights, is curtained and igd; astered n wind woven locally

The chapel, setting for a genuike after, buasts a miniatuse theater switchboard panel.



Sealons Gow Veleables and Thewers in Soil Heated by Volcania Springs

the transfer sky in summer."

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I see a no ill terme or feel and. In the per the will be a reason to the marry may one who could may read any again

Rocks Big Item in Budget

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In Reyklavik tive daily newspaners and many weeklies print enaugh copies to suppry the last test, worder, a chief so the property of the last test to supplies hooks at cost price.

vi that each feelander spends approxi-

mately \$50 a year for books of his language. The ones I was a local sink a local sink a local sink and Hunkhover from Local son Kruse, Hans of Green and Tree, a Monthly Steinbook

Lo addition to minute her in behindle one of which, Into reader I to 2 in a Hallon Launess, was a bounded one of the factor of the farmers of

the National Latricy bulges with some first printed line and nout and contact and manuscripes. It as a fine codestion of later these, given by the contact of the later twice twice of the later twice of twice of the later twice of twice of twice of the later twice of the later twice of twic

I to nate way in the state we ware there two players was a report the way from New Zealan I were exactly to the later than the way from the result of the way from the state of the result of the first of the first

Four other Seasons in air, he also the National of the air of a control of the seasons for a control of air of the culating centure. And the books carralate, two success carralates.



Steaming Spring Water Flows into Concrete Tubs at a Public L. Adv near Repairelle

Lefon here lave tripled closure on h ... to the meratics to him a now as an made in the members declared the water is possible of him and the meaning the meaning the meaning to the meaning the meaning of himself the meaning of himself and hims

In this northern land, where the midnight sun provide expectual daylight from Late Machinet the beginning of Argust, whom avid to a find a back they just can't put clown they can read all night without even ternangue the light

An bretamler does to specially bis une, sowever with his note; or all bis une to travels inde to some to the liest is de atow on the north ceast force even ski the placiers, except in spring when the thows make them took ingenous

the consequent of the older to our current of the consequent of the older to our current of the older to our current of the older that one consequent is to throw your expectation and as a long of the older than graph to a long on the floor American and the floor American and the

A throw is accomply sed by quick movements, must of them with the feet. It is are called "tricks," of which about twenty two have special names. Glass offers rulicable trom our process. In a second of the column quites suppose a second of the column tather than groups groups columns.

When we began sight-section in the conditions a few makes a trade of Reykjavik me day. There we saw several women, in bandaness and slacks, translang bundle lates wheelestrows to a small wooden builts a sec-

is a cabibling but spring. They were on the sea to the public laundry, maintained by the case and utalizing the near-by bailing water on tap all the year round (above and page of a

the boliding was contained formished, with testiony tube, drying rame, and a snack for the far suching room I formi on each bulk world of steam, so or see that it was dire bulk to see the women bent over the rinsing boards or neuting and brushing their ham bullean on rough wooden tables.

Bananaa Grow in Hot Springs' Bear

Show irrespening under our pars, we stoped a less that there on at a greenhouse to pit.

I would be independent and definitis. Hot was the by a battery of 1,000-was electrically as a mapping for the warmth of the nurs.

in a present than a depression of the control of th

The test spring and disternbouse was milter. It is years ago, since then hunn from of flowers, tomatoes, or complete, states, melons, and even tropical busant have been grown under glass (opposite).

Firm the car I saw bright-eve I, hing-flee descendants of the hardy sharp brought in la-

the early Norsemen. They were the thic to how operature of all Lelanders live.

Outnumbering the people nearly three to one, sheep are the mainstey of the country's agriculture, providing the farmer with food, riothing, and cash. Loused to fetal for themselves during most of the year, the limbs are driven down the valleys into huge, a minutal, lava-stone sheep-sorting corrals in early fall.

September 20th is usually mund-up day, and is one of the great occasions that keeps the shepherd dawn on the farm. He o note his wealth-on-the-hoof, drinks a latte wine, dances with his neighbor's wife, and sends his children off to make new acquaintain ex

The Inclination farmer leads a hard life. Less than one percent of the land exceptivated. Fo wrest potatoes, turnips, and thubarb from it requires infinite lack-breaking work and an sland-wide Government aided cooperative as-

soulution.

Formers saffered for pearly a century from the results of the most devastating volcanic eruption their country ever endated. In 1755 a tremendous fissure 30 miles long split the earth southwest of Vatna Józsal, forming more than a hundred cones, each with a crater.

For months explosions maked the island, throwing out an immense quantity of lava and ash—enough material, it has been estimated, to helks a prightier mountain than Mont

Blage, Europe's lughest.

The malten laws laid waste flourishing disnot. Ash covered the country: Vegetation were ed. Seventy percent of the livestock was last, and 20 percent of the people died in the familie which followed.

Hay is the principal crop today. Drained tow-lying farmlands produce two or three cut tage during the short summer season (pages 620 and 630). Fertilized with rich fish hand must left over from the previous season's catch that warned by the long boars of scalight, the grass grows rapidly.

Notive Puny is Iceland's "Jeep"

the harvestrime each remote farmhouse seems to be flacked with perambulating hays stacks equipped with four shuder legs. They turn out to be the indispensable little less

leadic pony, bearing hage I unders of hay, No visit to I reland is complete without making the acquaintance of the gentle, surefooted, (a)thful, obcdient, native pany, 4 to 5 feet of preseverance and antelligence (pages

636 and 6301

He carries located on his back at work and at play. He fords powerful and swift-running tivers one day and proudly wears his owner's colors at the frezen run track the text. No work is too difficult for him, and he tooks practically nothing to keep.

The leclardic pury lives on what he is able to graze for himself on the sammer, with just-bases a little seawerd for gatrish. In winter and shargy. I saw penies grazing tarconcernedly in a blizzard, pawing the snow aside to get at the grass, or perhaps to ancover a dried coulds bead provided for desert.

In the old days, the leclandic farmhouse was just of porous lava stone with a turi roof. It gave the impression from the outside that anyone taker than a child would have difficulty in doing much upright living in it. Actually, for warmth, the walls were sunk into the ground as much as four feet (page 622).

The modern familionise is made of concrete aper often is equipped with its own electric plant, lasify at home are utilizing the power of the peacest waterfail. The house is introductely clean, even to the snowy bed linear with Decemi this pel (Dream thee well) embroidered on the table.

7,000 Pounds of Fish Per Person.

If Ireland's land is poor, its sea is tith. It yields a bountiful harvest, amounting to council years to approximately 7,000 pounds for on a person in the nation.

the their home fishing grounds the Leclanders compete with 11 other nations (page 616). During the winter nights, some of Lar fishing banks look like floating towns, lights bothing on the ships parked side by side.

The leclandic fish rounds technique has progressed greatly since the 9th century, where towh alls and hand lines limited him to fjords and the nearest of shore banks.

Today nitralines are pressed into service to scout shouls for an extensive fishing feet consisting of motorloads and modern strum traviers equipped with echo sounders, refrigerated fields, and direction for ets. Powerful radios in board are transl coatinuously to market reports so that the right hand may be fished in at the right time. They use every nating tional aid and no manute is wasted

At special traces in mid-animer, when laterally layers of herring surge in thickly parked shoats to feed on billions of number organisms. It clanders in small bouts surrounding the mass have bauted in as much as 1,500 barrels in one cust. An ordinary day's catch is 1,000 barrels

For the past six years fishing has been poor off the northwest class, where most of the herring normally are taken. Dwindling can be have meant a considerable less of foreign exchange for the Lebande Covernment. Prospects, however, were better this past summer, when early reports indicated that the berring had returned to their objections in large numbers.

Ninety percent of a lockand sexports are fish and fish products. Last year the volume of these shipments decreased by or edited.

(the of the realest warm centers for hereine of the first of the table of the table of the seasons its parmal production of about 3 000 swells to hearly 10,000 and there are often 200 ships or value its but for at the same time

The towy village has five large factories where oil and med are made from the cutch Less Lam an hour passes letween the tense the little herring leaves the ship's hold and its conversion at a men to folder or fertilizes, or on far son, margarine, and explosives.

Some fish, especially code but look, and place, ore exported wind-and-same med, i.e., or construct markets. Resident bust makets are of the most makens and freezing units parchased from the nited Star

During the war, freland's fish provider a great deal of the protein read for the United Kangdom stood regrams

More trad rumes from the hieland fisheries that any ather one place on the globe. In the pholes are batted and dropped into the water at one sea

A Premium Grade of Cod-liver ()1

More than 300 collarge cod have been caught in one day to long-line fishing off the Westmanna Lyjath, by tanger ages there have been fish on every other to knot come one and a collar to be kny

The sun-run level in the market than that from any other fishing hanks

Some I clambers are grateful to the col-



bread, Buried in 13st Sand, Bakes at Laugaryam

The state of the s

for far more than the property it brings in rand. It is really responsible for the of that, in a country that enforces a strict to be the first monopoly, a catteer can quench his thirst with a glass of Spanish wine when ever he has a minut to do so

In 1915 when the sale of abrobatic beverages was probabited, there were repercussions from barrely as.

"If you do not buy our wine we canno buy your fed." was the ultamatum

in, a Cathern country cannot be replied to test on the table on certain days of the passive as the passive that the test of the passive that in 1932 Spann had her way. Spanish wine



d A Cherret Sports of Had Sports



again flowed in Iceland. Probibition was superseded in 1935 by a state in mapping.

We were served, in several occasions, the locally made brewait in theret wines, which the American soldiers called "black death." It was brewed, they were sure, by a process of miclear fesson. Then there was the color-less, fairtly anise-flavored Icelarcic aquaru.

The Icelanders are justly proud of their Government—a demonracy with strong socialistic leanings. They can trace their progressive measures back more than a thousand years, to the darkest ages when other European nations were ruled by despetic monarchs.

Ireland had trial by jury and a people's parliament that use which on the open lava; on of Thingye. It 300 years before the Eng-

13h Mother of Parlaments convened.

This "Grand nother of Parliaments" even had a suporth-running, effective OPA in 930. No trader could sell his wares until the local

chieftain had approved his prices.

Every year inflation or deflation was checked by public assembly deciding the volue of various commodities; how many fish could be exchanged for one also (24 incaes) of homespan cloth; how many bend of sheep for a row or a horse; and how many they of labor for a longing.

In the 13th century Iceland acknowledged King Haakon of Norway as her nominal head. She came under the Danish crown in 1360, not severing that the completely until 1944. At that time 93 percent of all eligible Iceland crs, including the women, who had had suffrage since 1915, voted to sever the union with Denmark. Nearly all who would favored establishing an independent Republic.

Today's constitution is based on the United States Declaration of Independence and the French Rights of Man. Iceland has a President, six Ministers (equivalent to our Cabinet), and 52 members of a Parliament corre-

spanding to our Congress.

The present Parliament consists of seven Social Democrats, backers of labor unitars; nine Communists, who ask for government ownership of otherities and means of production; 17 Progressives, who are agracians, favoring cooperatives; and 19 Independents, their platform calling for financial and political independence, free trade, and Individual initiative.

"Same Work Mr. Reosevelt Did"

I found that some lockanders had difficulty in remembering the title of the Monorakar Sveinn Bjornsan, head of their state. "You know what it is," an earnest taxi driver page I me. "He does the same work your Mr. Roosevert used to do."

Mr. Bjurnsson's work was bring President!

There is an Vice President. If the President dies, three men replace him until a new President can be elected. The power falls to the Prime Minister, Speaker of the Parliagrat, and the President of the Supreme Court

In many ways lockand afters an excellent pattern for successful and enlightened government.

When questions of great importance occur, such as those dealing with probletton and compulsory national service, Parliament may submit them directly to the people for an expression of opinion.

Nabudy is estractized for his political cycliions. Everyone is given credit for believing as he does for honest reasons. Occasionally, each member of a large family belongs to a

Gifferent political party.

Christianity Conquered Ancient Gods

On Sandays nearly all Icelanders go to the national church, which is Evangeled Lutheran, but there is complete teligious freetom.

This bus seen so since the year 1000, when the merits of Christianity and pagarism were publicly denoted before a great gathering at Thingvellie, and the old Norse gods lost.

Ther and Iduo, It was Iduo who kept a bex of apples which the gods, when they felt old age receping on them, had only to tasks to become young again.

Heardaliur, the watchman of the gods, was also among those defeated, despite the kernness of his ears. He could even hear the sound of grass sprouting on earth and wool

growing on a sheep's back.

The decision of the uncient chieftan Thorceit ended the prolonged debate and days of tortuous deliberation in his tent. To insuce the advantages of only one set of hows for the country, paganism was to be discarded.

Every man was to be baptized, but it would be permissible to how down to the heathen

gods within one's own home

A typical convert was Helgi the Lean, who renamed his honestand Kristnes, in honor of Christ. In preparing for perdous sea voyages, however, for double insurance he sacraticed

to and worshiped Thor.

Lelanders also dip into the state treasury for medical aid. Health insurance is compared for all between 16 and 67. In case of illness, the insured bears two-thirds of the expense, the Covernment the other third. Complete hospitalization is also guaranteed. Here the Covernment pays three fourths of the cost of medicine and a specialist's care Excellent state-paid physicians are on call at all hours of the ony and night.

Old age is the most prevalent cause of death in Iceland. The saying goes that this is



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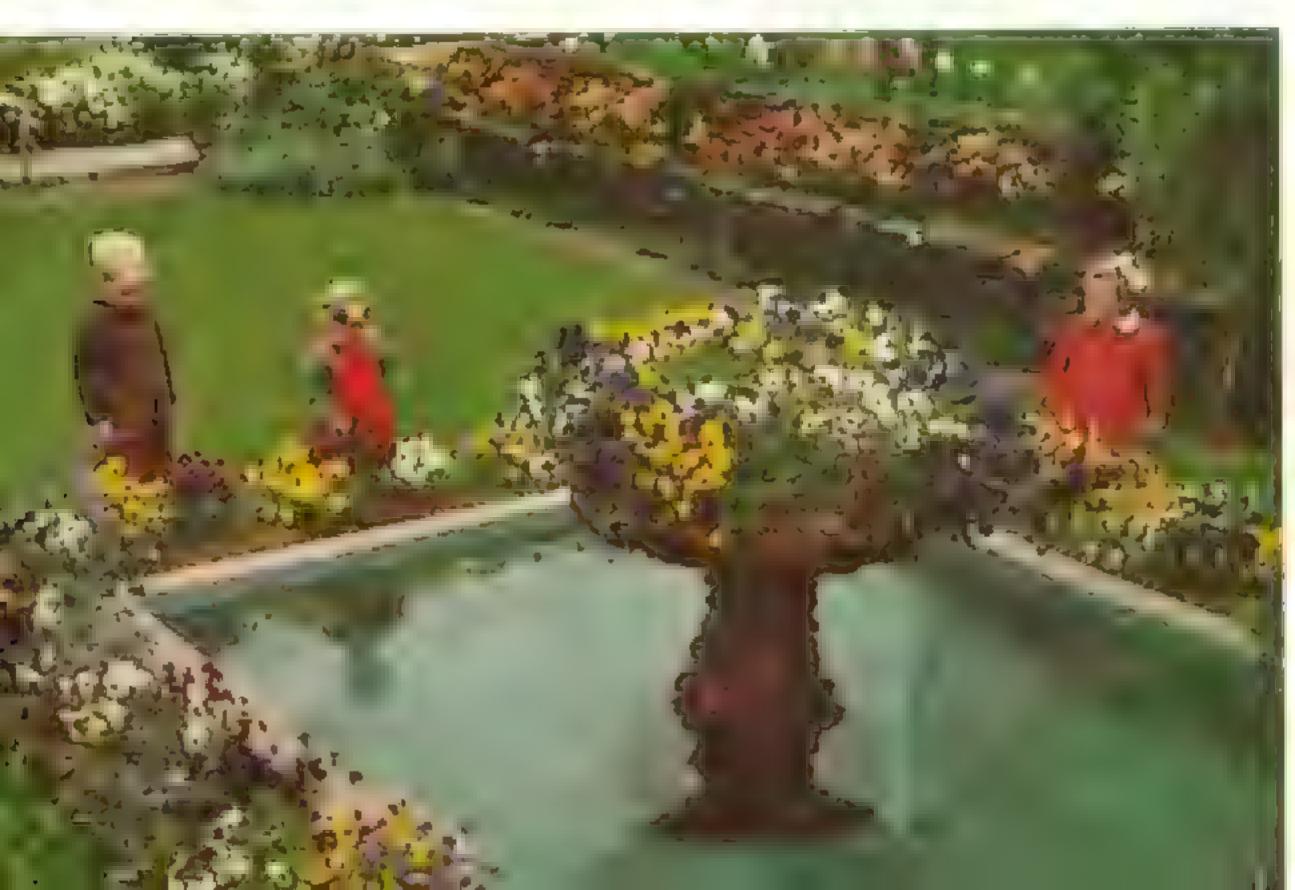
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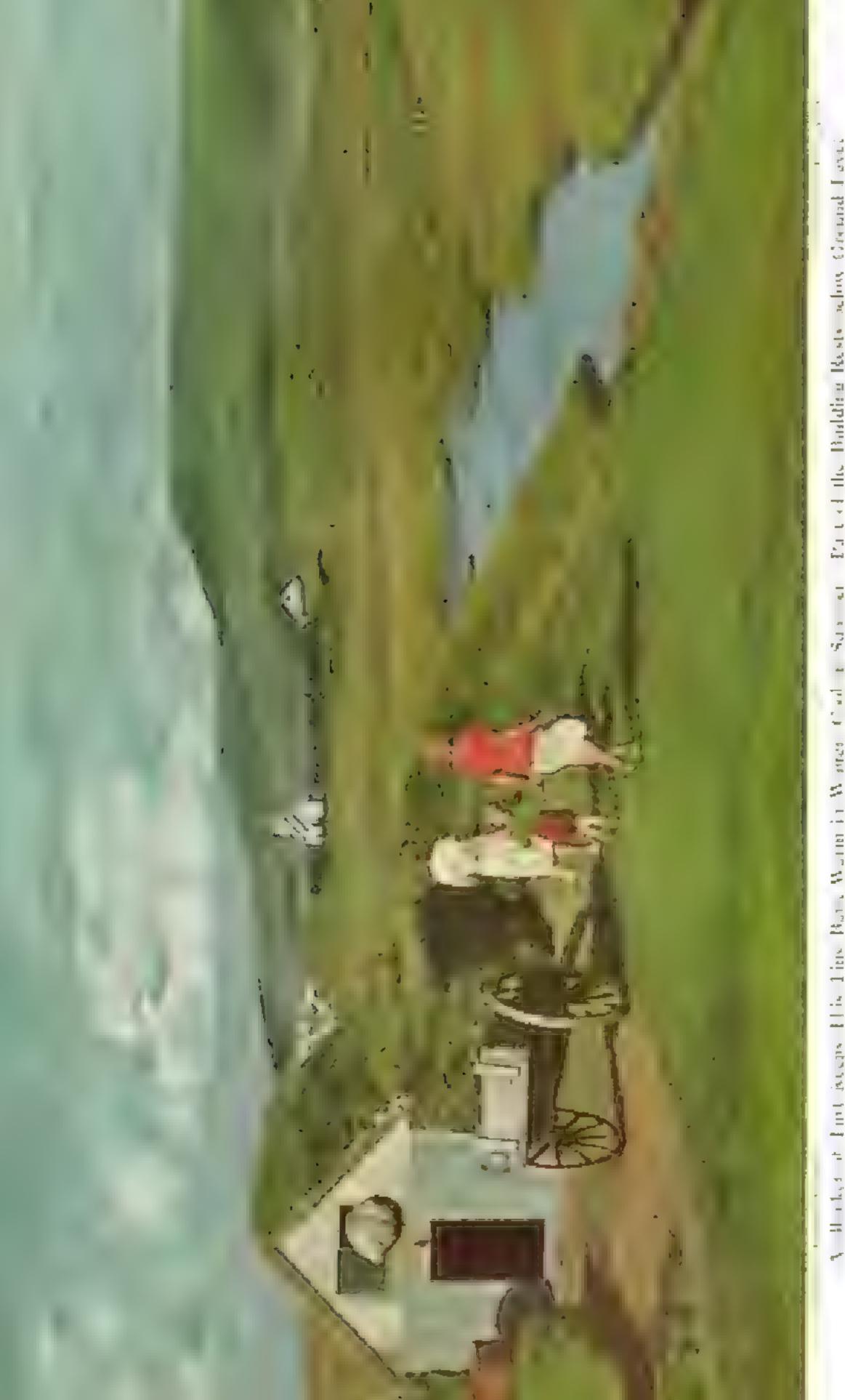


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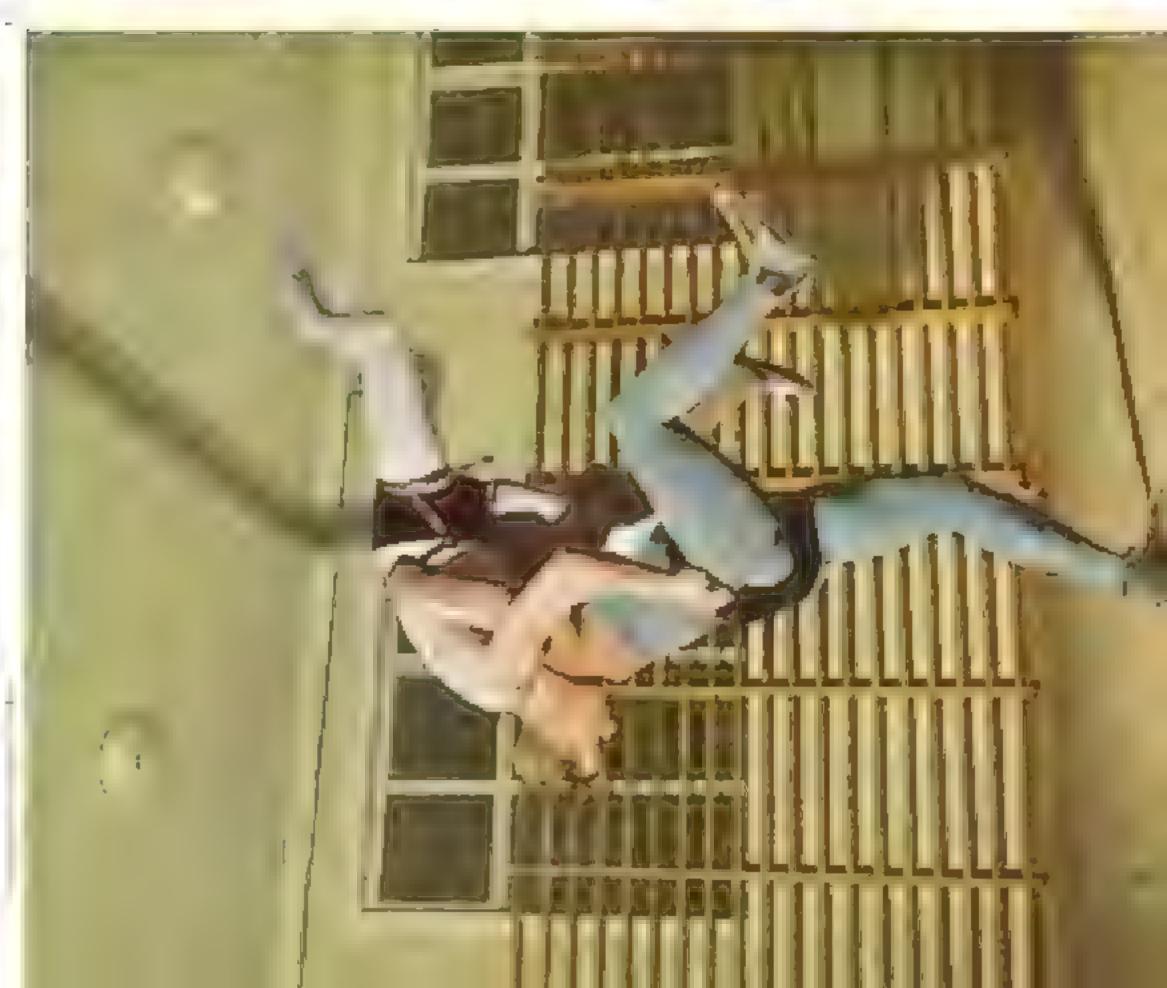


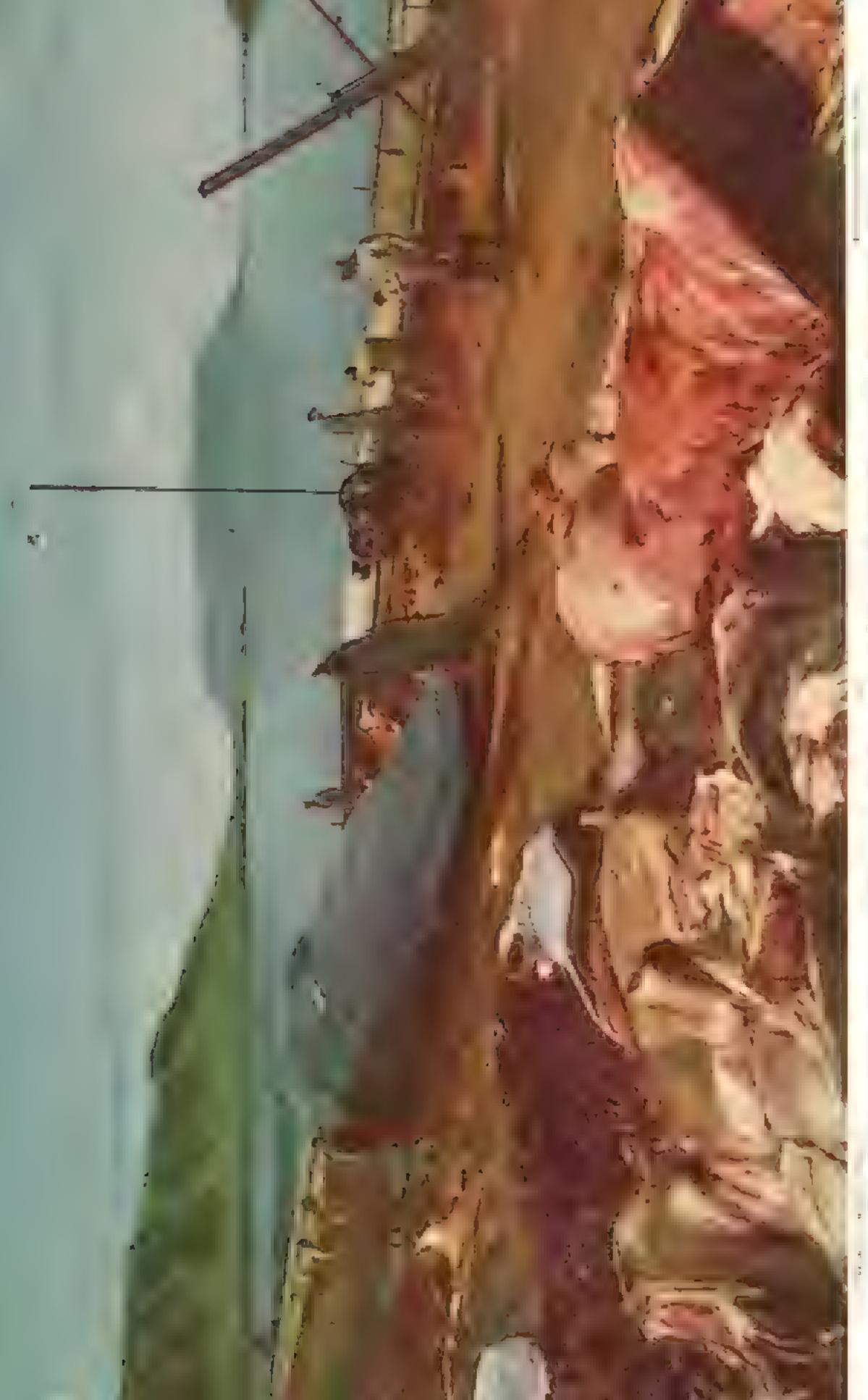




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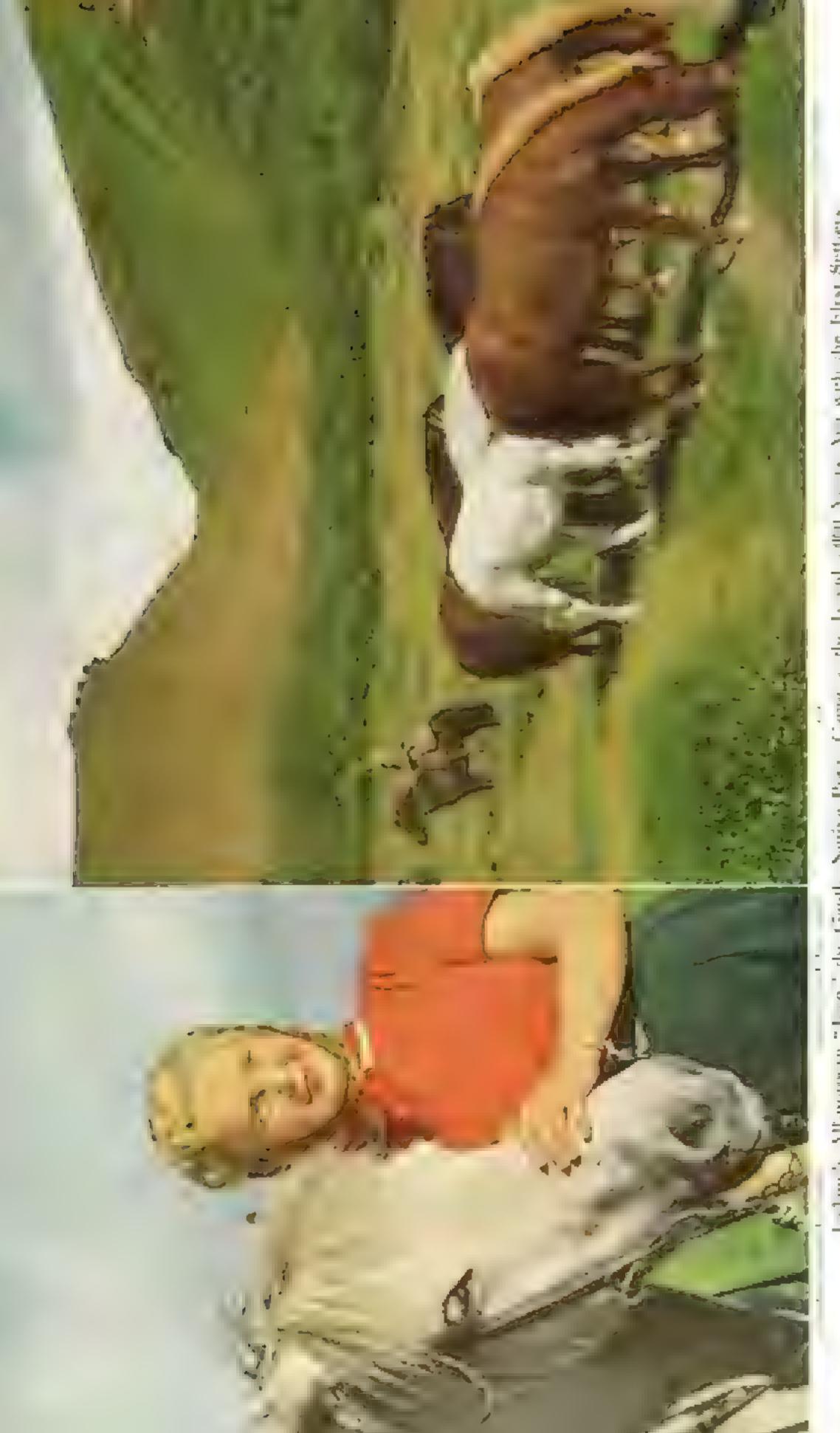
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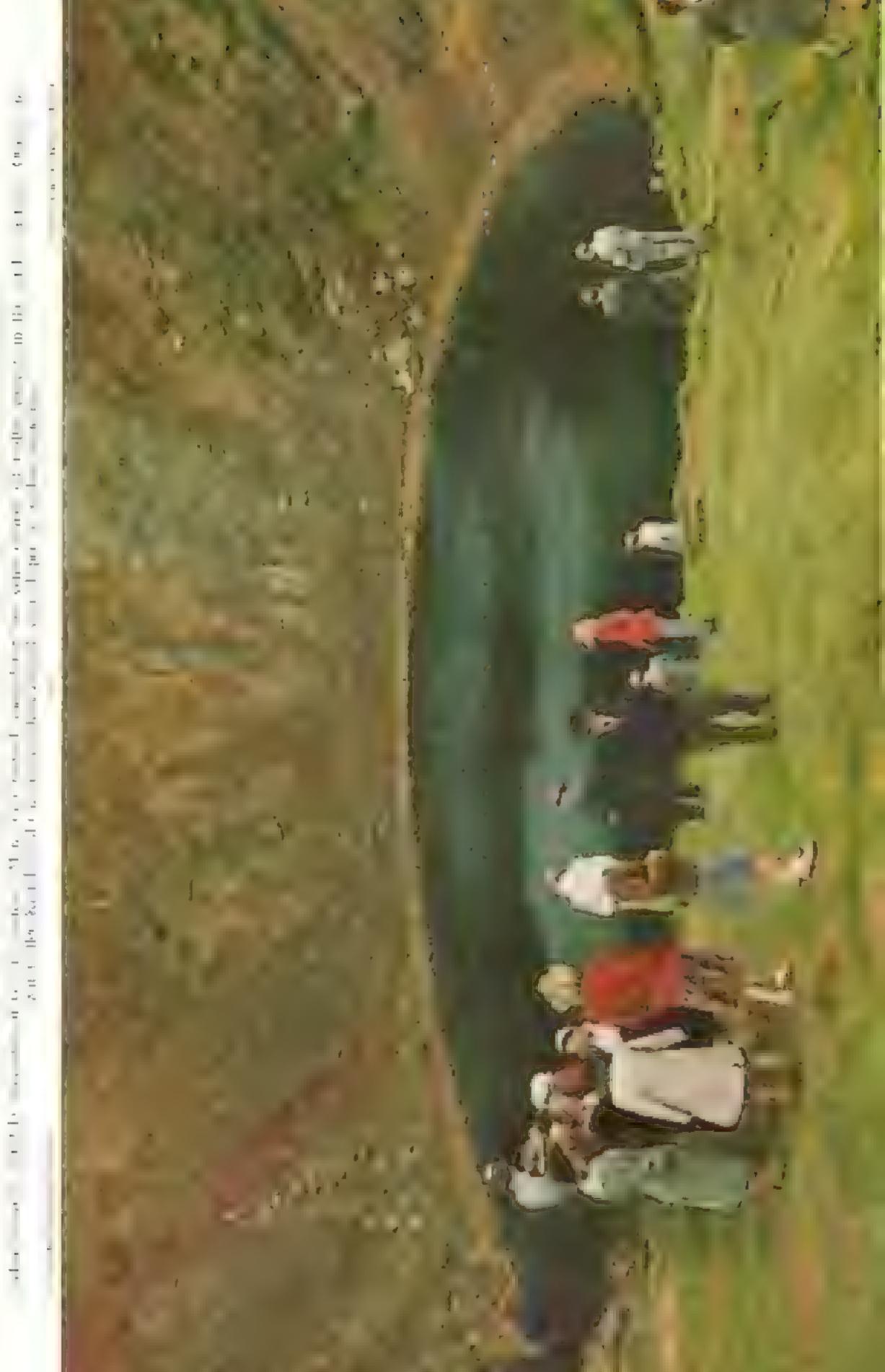


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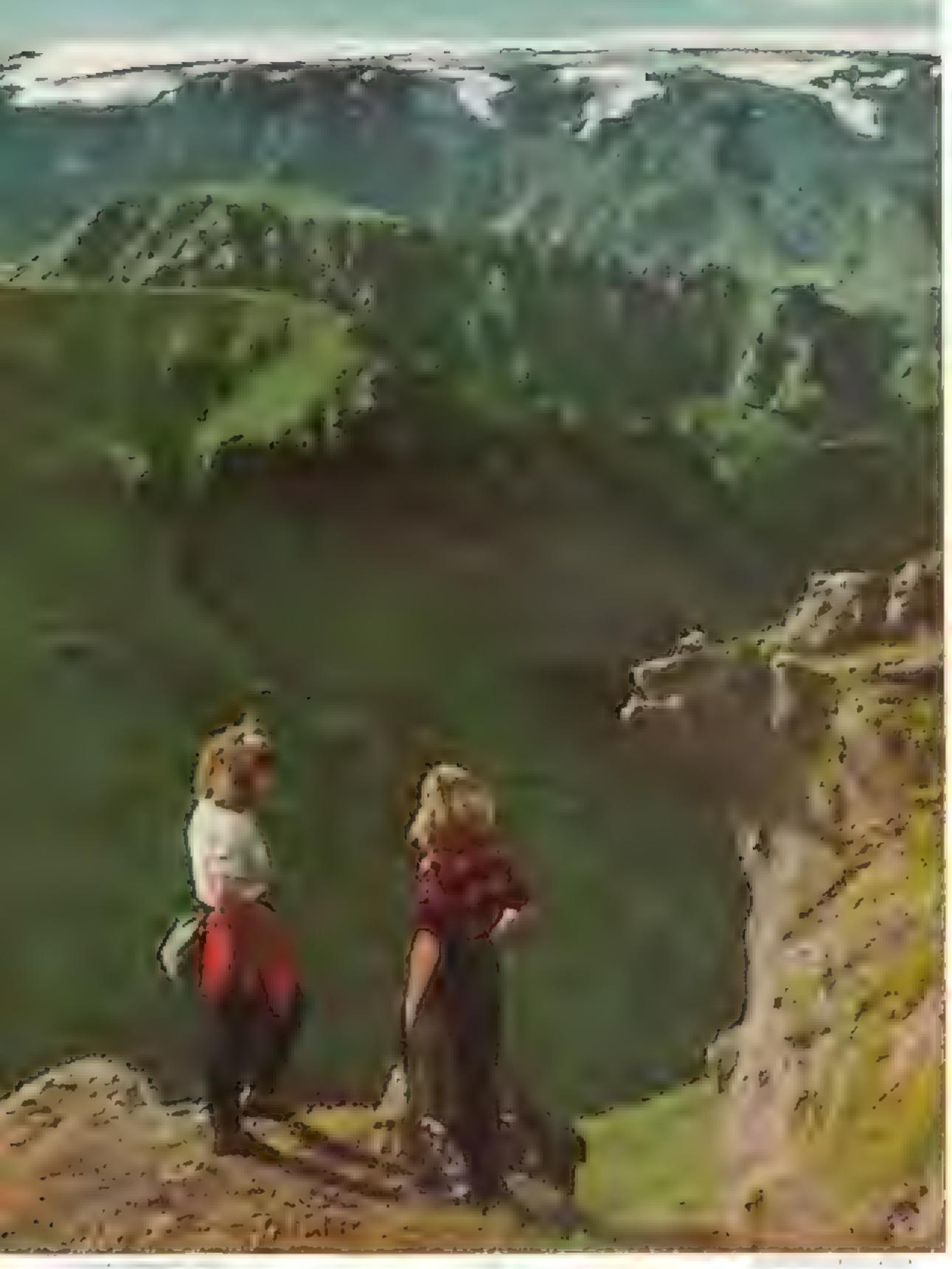




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Gaunt Lava Hells Meet a Spicon world Gaeter High in the Interest
Mana hartist characteristic and all views and a property of the solo and have been all the

because, having paid for his services, they call the doctor every time a famet leaks of a fuse blaws out!

"How much taxes would an Icelander pay who had a yearly income of \$10,000?" I asked Thorvald Thoroidsen. His reply was imme-

diate: * Eleves (housand dullats

Though they joke almut high tunes, they are really very proud of their Government-sponsored roads which formerly were more paths, despite their black outline on tourist maps.

Recland Has No Railreads

Iceland does not boast even a foot of railroad track, but a visitor can rirele the is and by car. Busses with a seating capacity of 20 ply regularly between Reykjavik and Akureyri, the "northern capital."

Taxes also enable an Icelander to pick his entertainment out of the air. Many a long winter night is dialed away at the Government-owned radio. Each terriving set is taxed to operate the two broadcasting stations.

The fare consists of talks and lectures given by the leading men of Iceland; straight news broadcasts; foreign languages taught by experts; and music, from American juzz to

symphonies.

The National Theater, newly completed, is a prize monument to sensibly planned the empert taxation. It is being paid for entitely out of amusement taxes collected at moves and lee rinks.

The Dramatic Society of Reykjavik, which we saw torring the island performing Our Town and An, Wilderness! is all set to step outo the ultramodern revolving stage. Fitted with hydraulic lifts and the most accument lighting equipment, the acting platform is

In the last analysis, the hest thing a traveler in heland can do is travel. He will find the country might just as appear thately have been called "Fireland," for the two mighty forces of ice and fire commine to shape this Island of weird majesty. Charlets and volcances

exist side by side.

Vated Jokuli, on the southeast toast, is more than 3,300 square males of ammense central ice dame with iry flagers reaching

almost to the southern coast

Suppokering Leneath this contents ice mountain is just of the most active volcanic area in Iteland. The Luried first often empt nelting and rending the solid lice above them.

Vatua Jokudi's icy tentacles reach out into call limbraum (Missiennembers better), one of

the largest laws fields in the world

Hundreds of guint craters, boiling callbons of guid, and ringer cones make one think he is looking through a powerful telescope trumed on the moon

Still-active Hekin, one of Iceland's 120 known volcances, can be flown over by plane; a local company has aircraft for hire for this purpose. In former times, Hekia was thought to be the 5,000-foot channey of heal.

During the past nine centuries it has erupted 21 times, living up to its reputation as the only outlet to the surface of the earth possessed by the Devil himself (page 602). Its name has found its way into many languages, for from it come the "Get you the Heckenfineld," of the Danes; and "To Hackleberg," of the porth Germans.

At Myvatn I saw fantastically shaped islands, and weird castles and travgy giants formed of lave fork that look like petrated sponge. They were made when flaming lava penred sizzling into the lake (page 521).

Fifteen a iles north of the water failure in white garlands over Dettifoss, lies the base footprint of Steipnir, steed of the god Odin. It rises from a flat lava plain, encircled by a 250-foot rock wall.

In the southwest, reached by a fairly good road, tumbles Gullioss, the "Golden Fall." It trushes down 164 feet to shutter in foam in the midst of a lava desert. The water rours in a sudsy sheet 400 yards wide, shining with all the rainbow's colors when the san strikes it.

Tradition says that Godhafoss, "Waterfall of the Gods," wan its name when Thorgeis harfed the images of his household gods to their dam in the thundering deluge. Godhafoss rages in a grim one, barren wilderness that his close to the main road between Akareyri and Hosavik.

A waterfall in reverse is Great Geysit, which has shot a jet of bulling water into the air off and on for centuries. It has been known to reach a height of 220 feet. It is very a commodating; a 20-minute command performance can be conseed out of it with a charge of surface-tension telleving soap.

Great Geysit Gove Nome to Namual Fountains

Such empting fountains of but spring water, found all over the country truge ofth, were tankn swn to Europeans before the discovery of Iceland

Now every toanist recounting the wanders of Yellowstone National Park speaks the tangue of Eric the Red when he says "geyser," which means "to rush furiously

Ideland is the camera endbusiast's paradise, where he can see great distances through the

unusually transparent atmosphere

Mount Esja, a 2,982 foot block of iceovered lava, seen from the streets and win daws of Reykjavik is a constant kaleicoscope of color under the changing play of light (page 111).



M. A. tan Branch I. was Jept L.

lead and Peny, Incational to Faricus, Draws a Rake Across a Lava-rimmed Meadow

Some anged and the first of the

The grain do not have to unload then level at a scholarme after their either in an as leeband in July Arm an substitute plant to be but to upo, Dr. Arm theighten, but the last the comming to find he are thor linkerton, reported in giving his nouse a new to the sent in broad daylight.

Warrior Muidens' Armor Reflects Aurora

There is one final deliebt in Iceland that weer fails to stir the visitor. That is the tree horealis, denoting across the beavens were are and cartains of light—mauve, and while."

As the Valleyries rue forth their utility incides ith strange, that rise rose. When there we the northern layer is a know the

here to a return forth in their quest for the least of a principle of a halos.

When a principle partice time arrived I was a principle to departure time arrived I was a principle to week. It sturmed I as snow swited against the alsport lights and an 80-mile-an-hour wind tried to keep a from crossing the field to our big plane.

We taxied for half an hour to be sure there were no obstacles on the snow-laden runway Finally the roar of 8,800 borses settling into hourses tald as we were on our way home. Thirteen hours and one minute later our later, or the present at La Guardia Field.

my eider down, and my little girl's dol

"Is this all you have to declare from Ice land?" he asked.

'Yes, sir,' I Buswet-

Neither the report of a could possible have set a value of the mamories I carried mane from the land of a und use. They were a store of smaggled wear event talike from an and confiscation.

* So the Rose : at the Northern Lighter on the United as the Lighter Market - Northern 1947

"Rockhounds" Uncover Earth's Mineral Beauty

BY GEORGE S. SWITZER

Associate Curator of Mineralogy, U. S. National Museum

I ARS ago when I first became a "reakbeyed a term, at I are a term, minerals in Heath Valley, California At nightfull we built a fireplace with several large rocks, started a fire, and set some ocans to heating.

Then suddenly our fireplace began to explode! We had not realized that the rocks tentained colemanite, a mineral which violently thes apart into a powder who a heated.

Our dinner that night consisted of a hard toducest mature of colemanite and beams. Thus, in a tather explosive fashion, we added one more item to our knowledge of minerals.

Hobby Dates from Earliest Trenes.

The world's first whereit collector probably was some savage whose eye was attracted by the beauty of a colored pebble or shining piete of rock crystal.

From earliest thoses men have collected attractive stones, nanetals, and unusual fessils and often have looked with superstitious are upon specimens whose origin they could not explain

Possilized shark's teeth long were thought to be objects which fell to earth during eclipses of the morn. Some ancient peoples even believed that certain stones brought forth young!*

Foday's rock hunters, free of superstition and armed with true understanding of Nature - 100 1-25, are finding beauty his den in 11 dec 121, unsuspected not only by their primitive forebears in 1 by most people even a modern times

Rockhounds don't just collect rocks. Despite the name of their hobby, the rocal interest has in the minerals of which tooks are composed. Born of the neighty forces of Nature, sometimes drop in the earth, sometimes at or near its surface, consumption of even in recent times, these minerals give a broad range of hearty and interest to what the overage person thinks of as narely rocks.

A rock is really an aggregate of minerals. Ordinary granite, for example, is a hard, roma-part aggregate of feldspar, quartz, amphibule, and hiotire. Other rocks may be essentially the mineral sandstone, for example, is mostly quartz, impostone is mostly calcite (page 634).

Fossilized bones, shells, and wood also are collected by many rockhrunds. Sometimes the original bane, shell, or wood gradually has been carried away hit by but by mader-proced water over yest stretches of time and

replaced, rell by cell, with some mineral dissolved in talk same water. Such fossils are unchanged in form, but have been completely transformed into open, quarts, pyrite, or other minerals (pages 647, 651).

Hundreds of Thomsands of Devotees

In the last 15 years the number of mineral collectors has grown enormously. Today, in the United States alone, they number at least 200,000; some estimates run well over a million.

Here is a bobby that has everything. It offers healthful outdoor exercise, adventure an introduction to a new world of beauty and color, a knowledge of geography and geology, as hard to the science of mineralogy.

One may enjoy minerals as jewels of care beauty, for diamond, ruby, sapphire, and other previous gents are minerals.† Then, too, for natural crystals of some minerals even surpass in branty gents whose surface has been modified by cutting and polishing.

Like stamp to lectors, rockhounds learn geography through their collections. Every country in the world offers minerals of special interest, beauty, or parity

America's great "master collection" of minerals in the U.S. National Museum, Washington, D.C., administered by the Smithsonian Institution, was gathered almost enterety by two amateurs who devoted many years and large fortunes to their hobby (pages 640, 641).

Most other important mineral collections also were gathered largely by anasteurs. No arangle of science owes more to the work of anusteur hobbyists than does that of mineralogy.

Starting to Easy, Equipment Simple

Since there are only about 1 600 well defined species of minerals, a chligent collect of can learn to know all the countries ones and many that are rare. Discovery of a new mineral is truly a feat of which to be proud. Finding a new species is an event of far greater insportance, for example, than the discovery of a new insect, for the known species of insects described to date already number around intro-quarters of a miltion,

See "Latth's Most Proplete People," by Charles I Montes to the Charles of Company 1 to 1

! See "Exporing the World of Genne" by W &



A "Rickland" Russissing of Pakes Paul, Explored a Uneside for Topic Classics
Not been a for the first and the first and the form of the first and the form

Anyone can be a rockhound; he can start in his own backyard or the near-by countryside. Almost everywhere there are places to collect interesting minerals within the distance of a short wask or autum dule ride, in a store quarry, a mise, a highway or railroad cid, on a beach, a mountain, or at any place where there is an outcrop of rock. Some of the best mineral specimens collected in New York City, for example, came from subway and skyscraper excuvations,

The equipment needed is simple—a pres-िस्तारक र कि. क्षेत्र कार्याच्या कार्याच्या कर्याच्या कर्याच्या कर्याच्या कर्याच्या कर्याच्या कर्याच्या कर्याच्य specimens, and, if possible, a magnifying glass

ці арыні 10 ромет.

This hobby has no age limits. Many a coffector, including the writer, started as a school-age "pebble pup". The Junior Rockhunnels of Present Arlants, is a chib composed entirely of boys and girls of 7 to 15 years (page 658). Many elderly people find reingral collecting a fascinating bully in relignment.

Clubs ruppher more than 300, in almosevery State of the Unkin, and hold regular mertings and field trips. Many are banded together in the American bederation of Mineralogical Switters. Conventions where tollectors gather to "talk shop" and display their prize specimens are attended by thousands of persuits.

Every devotee takes special pride in collecting his own spectmens, but usually be also builds up his collection by swapping with fellow collectors or by parchase from dealers.

So puthusiastic t to khound was Count Art for you Sensey of Hungary trut his relatives tried to obtain a court order restraining him from spending as much of the family wealth on minerals! His collection is now in the Budapest Museum, and two minerals bear his first and last names, andonite and sem-1 111

Mother Earth Plays a Frank

Experiences on field trips range from the harmorous to the arbientucous and even dan-

Once I was collecting tare minerals deposited by fumandes and hot s, rings at The Geysers, in Somema County, California, where the earth's surface seethes and busines with steam and bodding water which corry mineral matter to the surface from a mass of hat rock at great depth below.

As a result, much of the ground is saturated with a solution of sulfuric acid, strong enough to est through clothing. Unfortunately I sat. on the ground several times in places where I shouldn't have. A short time later I was dudging belund trees at the approach of every

-ight-sect"

Dr. W. F. Foshing, Curater of Geology at the U.S. National Museum, once was tollecting minerals at an abandoned wing in Mexico where he had to clima several hundred feet down an old shaft by means of "chicken ladders," merely notched logs string together by tape. When about halfway down the lathler, it occurred to him to ask his Mexican guide how old the topes were. The answer was disconcerting, to say the least.

"I don't know," replied the guide in Spanish. "I have worked here only 23 years"!

Dr. Foshag had an even more exciting expertence while collecting minerals deposited by hot gases recaping from the layes of the newly both Paricutin Volcans in Mexico.

(page 636)."

The volcano was in frequent and violent entiplion. While walking across a large upon ash field, he was caught in a shower of volcande loss ha. These are more or seas spherical chanks of live which are thrown out of the crater by gas explusions to heights of several thousand feet. They full with trementions (urce.

One such bomb, about a fast in diameter and weighing 30 or 40 pounds, missed the scientist by only a few feet. It had a surface temperature of over 400. Fabreabelt and was

reg hot inside!

"Huir-raising" Experience

I raise had a literally hair-raising experience while collecting aguamatine crystals near the summit of Antero Peak, 14,245 (cet high, in the Colorano Rockies.

A particularly intense thunderstorm passed aver the sharp ridge upon which I was working. I felt a peculiar prackly sensation on top of my head and, in passing my hand over It, found my hair was shudding straight on end like a hairbrush because of the strong electrical field generated by the storm.

I hastily jumped to a steep snow held near by and, using a shovel as a sort of sled, slidseveral hundred feet down in a matter of sec-

IDI'S

Later a high-voltage expert fold me: "It was fortunate that you get off the ridge us quickly as you did. The inct that year hair was standing on on! meant that the rext stacks of lightning very likely would have but

Stone quarries are fine places to collect specimens, not they should not be entered until one is sure that there is no blasting about to start. A friend of mine leathed this

the hard way.

Late one afternoon he visited a large (rajh-

· See Physicatle, the Countrielt That Grew a bidrapid," by James & Good NATRONG GROGIGERIA



College as Finerge from an Asimon Case with "leieles" at Unleite.

such as the second of the seco the state of the s the territory of the state of t

tack gitter bed Me of Core to go the coll by the first be a site to 1 to 1 and 1 and 1 to 1 and 1 at 12 up 10 her prince or le elf patt a foot a short to will use with the first to the first s a least to grand

The said of the last the last the said of the last the said of the s a near total of the seed about 10 feet 1 sk The fire which by ad setambled only accounts before. Five sucressive blasts arrived across the quarry Hoor, each about 10 feet closer to where he In present taken the last one went off only about 40 feet from him.

When he stood up and dusted hanself off, be was alghted by an argry quarry foreman. who is ld ham be must forceful language that I beging is manually discount for introduction work of him had of a bearing offer they be so lit for the day. Moc i No. matter what they you go into a thatty, the k with the foreman fu ' Antonia - ever-present dancer of tale a col-

s r of specimens single or he specimens a line contract Beryll I and a service have and the term of the term of the 113 for all the colors of the warm the trace forth Ashro 28 calleteam" organists were known.

Skart on Borne Lake

This small lake purpoly has water in it but that year, after a dry winter, it consisted of a soupy nata, many leet deep, covered by a thin crise of salis

Spring for the first per book of the second weight, and the many was mother were there mane, we propose a see 3 to a new 3 six-buch planks to our shows. With the comove i ever the lake at will, collecting to teto be and a marked than at them. ルール サート 近月でを打 1/2 F-

Co lection true in a long or rain expedifinite to later natabouts wholes red by mineral andreles. The resistant discussion of upon and rathe and make them 1400 on the or who

assembled on the Mojave Desert tear Thurer Dam to collect agates,

A good collector must have infinite patience. A fine crystal may have considerable value if taken out with rate, attrached to the matrix or surrounding rock. If caretessly bruken or 1 however, and bruised or marred in the process. t may be almost worthless.

Hours or even days may be needed to work a specimen out of the enclosing rock. I know of one codector who labored for three weeks with hammer and chisel, "drifting" or following a your of wallenite in the wall of an abandance mine tunnel for a distance of 30 Tiret.

He reasoned that if he followed the win he sulght find a place where it spened into a cavity, because in such locations unusually fine crystals are most likely to have been formed. After three weeks of backl reaking labor, he did find a cavity and was rewarded by several magnificent sperimens of brilliant orange-red crystals of walten'te, or molybdate of lead (pages 643, 646, 647).

For the speation of her minerals Nation tails on all of the giant forces at her command, including the action of water, great pressure maidr the earth, or the heat of volcanoes Most minerals are formed by various com-

Eductions of these agents.

How Minerals Are Formed

Minerals come into being through three fundamental processes: formation from solution, just as sugar crystals often form on the pottom of a jar of maple syrup; formation by the cooling of a fused, or malten, mass, much in the way that molten metals congeal and crystallize after being poured into a mold, and formation from gas by "suldination," a process in which a gas passes directly to the solid state without going through an intermediate siquid condition.

One of the most important processes is formation from solution, with water as the chief solvent. Water discolves substances in the earth's crust, rearranges them according to its famey, and redeposits them as minerals. This water may fall sugmally as rain, or i. may be "magmatic" water from the bowelof the earth which ascerds to the surface as the steam of volcances or in hot springs,

Mmetals forced by rain water are found within a few hundred feet of the surface They form the calcite of stable lites and stabletuites in caves, the beautiful copper is herals, asurite and malachate, in the tear-surface portion of repper mines, and the saline refresals such as ha ite (rock s. lt) found in arid regions like the Mojave Desert.

Magmatic waters are directly convected. with large, deeply ideried reservoirs of molten-

tock, or magma, from which comes the lava of our volcanors. These waters generally operate deep within the earth's crust, and their handiwork is revealed millions of years later where existen has cut away the great thickness of overlying took,

1) is these waters that have deposited minrtals containing gold, silver, copper, zinc, lead, tio, and other useful metals in velos and other

types of ore deposits.

Minerals formed by fusion have crystallized directly from magma. They make up the izneous, or fre-born, rocks, such as granite and similar coarse-grained, deep-seated racks. and layer such as basult, products of volcanic activity. Most important of the minerals foresed in this way are the rock-forming siljcates, including feldspar must abundart mineral in the earth's crust-amphibole, pyrosene, and mica.

Making Diamonds Is Name's Secret

Formation of diamonds from carbon probably is linked to this process, but the exact details of a diamond's birth continue to be ore of Nature's prost closely granded secrets. Numerous attempts have been made to "grow" dismonds in the laboratory. Trying to simplate conditions deep in the earth, Frof. P. W. Bridgman, Harvard's specialist on high presstares, subjected carbon to pressures as high as 400,000 pounds per square inch and to temperatures up to 3,600° Fahrenhest, but no diana nds resulted

Minerals formed from vapor crystallize by passing directly from vapor to the solid state, but this process is rare. Sulfur crystals formed from lot gases Letting from formatoles, or steam vents, in arras of recent volcanic activity are perhaps the most important example. There so for actually ran be seen in

the process of bring formed.

An average sample of the moth's crust contains about 9 percent aluminum, 5.5 percent from but only .01 percent zinc, .008 percent cupper. 3004 percent tin, 3003 percent lead, 0005 percent tranium, 20000006 percent gold or platmum, and most other metas in similar imiles of magnitude. spite of our modern highly efficient methods of recovering metals from ones, it obviously would be appresable to work with cressuch low grade.

The only reason that we have available for use such metals as copper, lead, zinc, situal. gold, transum, and a great many others is that Nature has performed a remarkably good preliminary concentration by segregating abnormally large amounts of these scarce elemetals in certain spots in the earth's crust These are our ore deposits

How are ones from ed? Geologists Lamb.

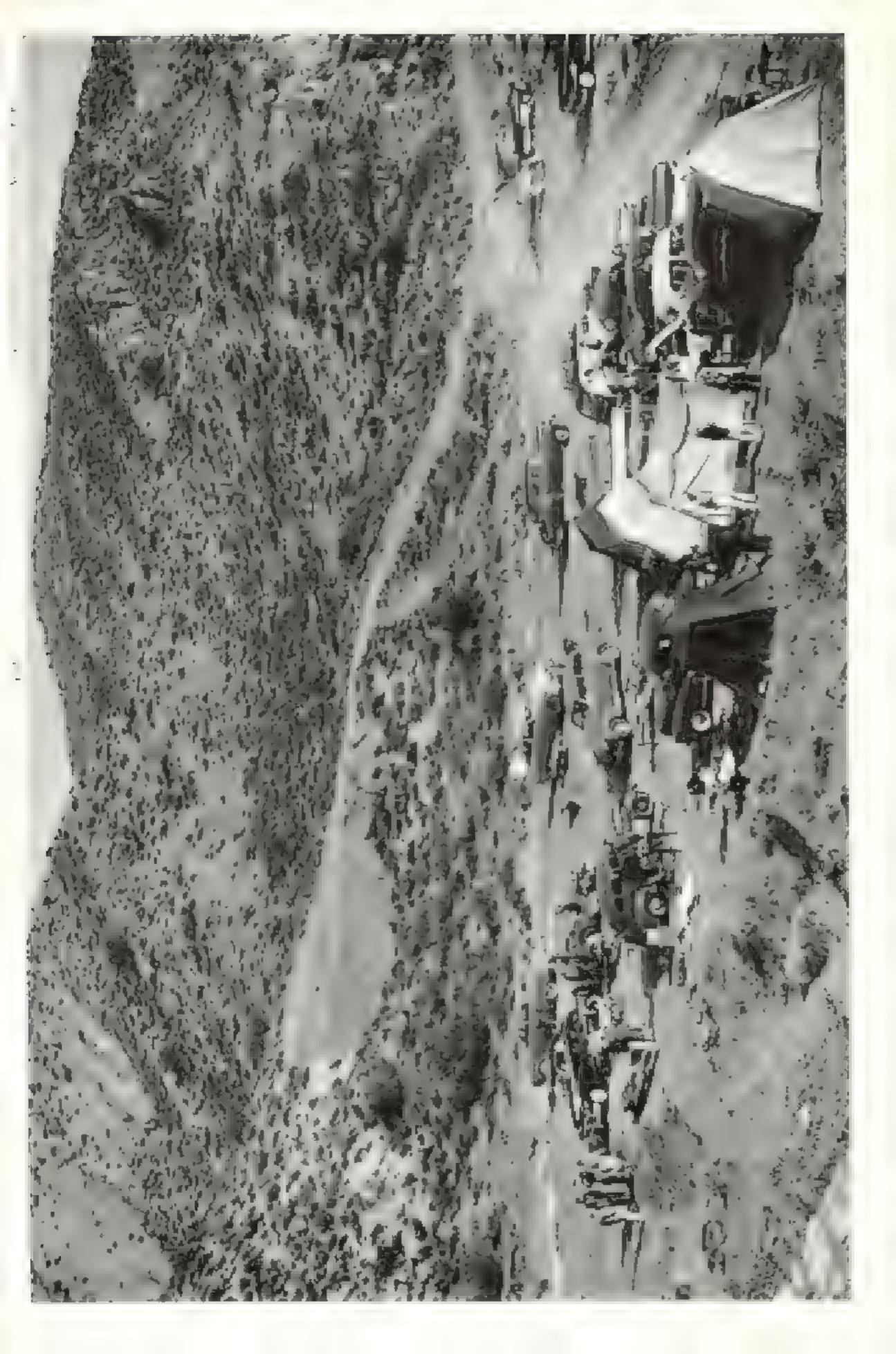
Mineral thepters Rick Death of Mexico's Facetime Volecter

To the term of the

1

A Kack Calletter Carp





that as a mass of molten rack cools deep within the carries crast, the common silicate ofocrals crystallize cut first, leaving a liquid that becomes progressively richter in materials such as copper, lead, or gold. Finally the cooling suck liquid, containing beauty concentrations of these elements, this cracks or overlices known as velos, which become our present day deposits.

Indians Worshiped Copper Boulder

One of the largest and most noteworthy ratheral specimens in any collectain in the United States today is the families Outoragon copper boulder in the U.S. National Mission. It came from pear Michigan's Keweenaw Peninsula, in the Lake Superior region, formerly one of the most important copper-producing areas in the world.

This specimen of nearly pure native copper weighs about three time. Not only is it of interest for its size, but it could tell a fascinating story. It was worshiped by superstitious ludians for years, was the goal of mining adventures while the flag of England still flew over this Great Lakes region, and was sought by explorers and scientists on hexardons ex-

peditions

About the middle of the 17th rentury, Jesuit missionaries and French applicates around Lake Superior found among the Indians pieces of copper weighing 10 to 20 pounds, In 1667 a piece of copper weighing 100 pounds was brought to Fasher Cloude Dablon, a Jesuit, and was reported to have come from the Ontona on River

In 1819 Gen. Lewis Cass's party visited the Loulier. His men were able to move it only four or five feet, and number party two years

later had no better somess.

Meanwhile, Julius Fldred, a hardware mortchant of Detroit, heard about the boulder. For 16 years he schemed and planned how he

might remove it to civilization

In 1841 Mr. Ehlred hid an expedition to the mouth of the Ontonagon River and bought the bookeer from the Indians for \$150. The party then went 26 m les upstream to a point on the fork of the main river where the boulder was aftented. They managed to raise it on skids, but could not move it, and had no letter mades the rest number.

Mayed on Portable Rullway

In 1843 Mr. Eblied went from Detroit with materials for a portable runway and car. According at the boulder, he was chaggined to find it in the possession of a party of mores. He had to boy it again, this time for \$1,3000.

It took a week for the party of 21 persons to get the boulder notice 50-boot hill near the iver; then they moved it on the car and wooden rallway track for four and a half m lesthrough dense forest and across deep ravines to the main stream, thence to Lake Superior

Here Mr. Fldred was confronted by an order from the Secretary of War seizing the loudler and allowing him an amount not to exceed \$700 for his costs, the appealed to Congress and finally received \$5 664.98. The present-day value of the boulder for its copper content would be about \$1,500

Eventually the boulder was carried to Washington, D. C., by way of Buffalo, the first Caral, and New York City. Simistime after 1855 it was taken to the Napoud Museum.

Other capper masses of immense size were encountered from time to time in the Lake superior mines. The largest, found in 1857, measured 45 by 22 by 8 feet and weighed about 420 time.

. Withough of great value, these time masses of nearly pure metallic copper posed unusual problems in mining, because the toughness of the metal nucle it difficult to break them down to a size that could be removed from the names.

Latize masses of other pure native metals have been found in various becalifies, so has a 190-pound gold purget from Victoria, Australia (present day value marry \$80 0.00), a 200-pound mass of gold in a quartz vein from New South Wales, Australia, a 22-pound engeet of plath um from the Ural Mountains, worth about \$25,000 today, and huge masses of pure salver at Cobalt, Outatio, of which a 1,640-pound sample is preserved in the Parliament Hald'ing in Ottawa.

Minerals from Omer Space

Outer space also is a source of a inerals, fluctuatively arriving on earth are the facte-order, the rock fragments of some shattered planet believed to have moved once in an orbit between Mars and Jupiter. When it broke up, this planet yielded the group of celestial bories we now call the asteroids, as well as clouds of much smaker particles.

Astr numers estimate that hundreds of millions of these particles enter the carth's atmosphere every day, and that several millions are big cacago to form visible "shooting stars," or meteors. About of them, in just a few seconds, are brater, to incandescence by friction with the air and consumed,

A few meteors are large eaough to reach the routh without being burned up, and we call these meteorates. It is estimated that they fad at the rate of about one metric too a day.

Meteorates bute were beseved to be supernatural, and when one was seen to fall, with the accompanying flashes of Light and word expansions, it created great fear. The earliest



Young Misce o Vestors Join the Actain in Irspecting a Famed Cappe Boolder

The content rate of a section to the property of the property

The state of the s

are known, and not many of these were activably witnessed. Persups if rockhounds in the field would keep meteorites as could while rollesting other speciments, new finds would be made more frequently. Since there are relatively lew known fulls, the discovery of a new meteorite is a matter of consideration than that the

Most minerals in meteorites are the same as those found in terrestrial make, including nickeliron, dismond, graphite, magnetite, quartz, olivine, pytoxene, and feldspar. But some ture minerals rever found on earth are known only in meteorites, such as columite and schreibersite.

239 Possible Crystal Putterns

Nearly every mineral, when allowed to form without external interference, will assume the shape of a solid bounded by plane, or flat, surfaces. These solids are crystals. Well-formed crystals are minerals at their best and are highly prized by collectors. Most people and it bard to beheve that crystals, with their mathematically exact, brilliant faces, are really the work of Nature and have not been cut and polished.

Crystals constitute the finest example of order in Nature. With very few exceptions, all minerals are crystalline—that is, their atoms are precisely arranged in orderly rows and layers, in a pattern which is repeated over and over again in three dimensions, much as the pattern of wal paper is repeated in two

limensions.

This orderly atomic arrangement is the fundamental characteristic of crystalline thaterlats, as opposed to the haphazard arrangement of atoms in powerystalline substances, such as glass. Natural crystal faces are the outward expression of orderly atomic arrangement within, since all the faces must be parallel to a plane of atoms.

There are only 230 different fundamental patterns into which atoms can be arranged so as to yield a design which can be repeated indefinitely in three dimensions. These are the 250 space groups, which can be further twithed into the six great crystal systems, known as isometric, tetragonal, hexagonal, orthorhombic, monoclinic, and tricknic

These six crystal systems are characterized by the nature of the simplest set of imaginary ines, called axes of reference, that can be assed through them, and to which the indi-

gidual raystal faces can be referred.

Crystals grow from the center outward because along are attracted by electrical forces to other atoms of the same type acready on the surface of the crystal. The addit malatons arrange themselves in orderly layers, layer on layer, on the original seed, or nucleus.

Crystals may be so tiny as to be invisible even under a high-powered microscope, or they may be many feet in length. An one the largest known were the hage spadamene crystals found in the Etta Mine, in the Black Hills of South Dakota, which reached a length of about 40 feet.

Crystals assume many different shapes, depending on the number and relative size of the faces. The least a upber of faces possible, is, of course, four, and a four-sided crystal is known as a tetrahedron. At the their extreme, a rare mercury mineral, eglestonite, from Texas produced a crystal having 482 individual and distinct faces, all on a crystal less than 1-25th of an fach in size.

In the vast majority of cases a mineral cannot assume perfect reystal form because other crystals near by block its growth in some directions, as, for example, the crystals of the

various minerals in granite,

Roshland Cadected 16,000 Specimens

Of all the great collectors of minerals during the past century, perhaps the most interesting was Col. Washington A. Roebling. He gathered more than 16,000 specimens which were given to the U.S. National Museum in 1927 by his sou, John A. Roebling, in memory of his father,

Colonel Roebling collected minerals even while serving in the Civil War. Among his specimens is a small piece of gold, with a nearly folioed label written in his characteristic fine and perfect script: "A minute specific fine and perfect script: "A minute specific native good from the U.S. Gold Mine on the Rappohannick, in which I slept the night before the Buttle of the Wilderness."

As a raditary engineer, he built suspension bridges norms the Rappahamank and our estate Shenan look River at Harpers Ferry After the war, joining his father's form, he completed the construction of the Brooklyn Bridge, a marvel of its day and the first of 51th great suspension bridges built in the United States

While directing work on the bridge be contracted the dreated causen decase, or leads, as a result of coming to the surface too quickly after working in the compressed air used to keep water from entering the caisons.

Though this made him an invasid, he deter I limself to mineral collecting for the ment of years. His love of his holly undoubtedly prolonged his life. Near the conwhen his sight was failing, he remarked. "My life is over, as I can no longer see my minerals."

Colonel Rochling knew his vast or liceton so thereby that he could restribe instantly the specimens representing any species. His

collection contained all but 12 of the names in the index of the sixth edition of Edward Salisbury Teena's System of Almeralogy-kn unparalleled fort

Smithsonian Collection World's Best

As a result of these efforts put forth by a man who collected minerals as a hobby, the E > National Message now has the most extensive mineral collection in the world, of inestimulde value for research.

When Colonel Rochling's collection was deeded to the National Museum its value was conservatively estimated at \$250,000. With income from a generous endownsmt fond that went with the collection, new specimens con-Stantly are being purchased, so that the present value of the collection is far higher.

Another of the great roughour is was brederick A. Canfield of Theoret. New Jersey, who in 1926 gave the Museum a collection of some 7,000 fine mineral specimens. Included in 't is one of the earliest mineral collections ever made in America, begun in 1808 by Mahb n Dickerson. The must exceptional specimens in the collection are those gathered by Mr. Canfield's father from the long fumous zinc mine at Franklin, New Jersey.

This locality is a byword among tributal collectors, since in addition to producing spectacular crystal groups of many minerals, it has welded aboutently 150 convent nameral species, many of which are brillantly fluoresent. After more than 100 years of our finnous operation, this mine is nearly exhausted and is

to be shut down in about two years.

Funds left by Mr. Canheld are used to add

constantly to his collection.

Mineral reflections such as these probably: will never again be equaled, since they contain the finest speciences from localities long. noe depleted. These on lecture also had quasineral le wealth for the parchase of speciment , od were able to devote a libitime to the r nobby.

Most reckhounds specialize in a single phase of mineral collecting, if or ly because a c diectern quickly becomes both bulky and beavy.

Some, interested in geography, try to obtain a specimen of a convinue are ieral, such as Justz, from every State in the Union, or pethaps eventually from every country in the world.

Freige Atoms Glass Like Coals

One of the popular specialties is collecting fluorescent minerals (pages 550, 637) - Such minerals allow in the dark when viewed under Invisible ultraviolet, or "I lack." light, revealing beauty and color that remain hisbien in ordinary dighylit

Photoscone may be explaned roughly by

saying that the mineral, which is made up of strans, is in a compation of stain because of the presence of foreign atoms that are the large of two small to fit properly lata their surroundings. When excited by the energy of the "black" light, this strained network of atoms vibrates and gives off visible light causing the specimena to glow like but coals-

Many minerals which are ordinarily dull and drab looking are transformed by theorescence into dazzling splashes of color of nearly every line. A good exhibit of fluorescent minerals can be truly a breathtaking sight.

One method of identifying princials in rocks is to pass polarized light through very than sections with the aid of posacizing prisms in a special microscope. Unlike ordinary light which viorates in all directions, polarized light vibrates in one direction only. Such light brings out characterista: comes and structures rsed in identification (page 652).

"Micromounts" Unequaled for Beauty

Many rockhounds collect "micromounts," thumbhail size specimens whose minute patterms and colors are visible only under a microscope (pages 652, 655). Each specimen a mounted in its own tiny cardboard box A collection of abousands of such specimens. cam be stored in a cabinet no larger than a e agade radio.

Micropount - Lectors prefer crystallized material, and crystals are generally more perfectly formed when small. A good mirromount, properly mounted and lighted, has no equal for beauty and perfection of form. For viewing muctous stitle, one peeps a good widefield binocular micro scope havleg a magnituation range of from about 19 to 50 or more DOMESTIC OF STREET

Some rockhounds are interested primarily a minerals of economic importance, or in the chemical, optical, or physical properties of unimenals. Others speciosize by collecting tose sthough, strictly specking, these are not

minuents,

Fossil collecting is especially popular in along of the Micwest States, where fossils are abundent in simesome and sandstage deposits haid down on the bettoms of uncirnt seas. Rocks in which minerals are found in great variety are scarce in this section.

One of the most popular specialties for rocknoweds is the cutting and polishing of genes, or lapituary work. The amateur lapihay collects only minerals that will take a high polish and have sufficient leastly to be used as organization. From these he fashlers gems of all kinds, often with a skill equil to that of the kest professionals

The rise of the lapalary movement in the past few years has been phenomenal. Less than 20 years ago only a few firms manufactured lapidary equipment, enostly for professionals. Today there are dozens of firms numerical tring it for home use, and thousands of amateur lapidaries.

Lapidary work is also being used very extensively by the armed forces as part of the residual physical therapy, and rebabilition. Note that our setvicement and veterans

Some hap fories out mostly smorth, domedtop at mes known as cabochous (page 650). Others prefer to make faceted stones, those out with a large number of that fores (page 655), such as the familiar brilliant out dia numb. Still others may specialize in large, that, highly polished stabs for making back outs, ash trays, or penholders.

Agate Popular with Lapidaries

Agate is one of the most popular materials of the amateur lapicary. A hard, tough variety of quartz, it takes a high polish are oners an almost infinite variety of colors and patterns. Unusually fine agates are found ir many areas in the West and Southwest, especially California, Mintana, New Mexico, Oregon, Texas, and Validation.

Individual agate collections may contain thousands of speciments, including forms such as moss, plants, tres, lands, and athess, is named for their resemblance to these things.

Many agates come from "thunder eggs," more or less spherical makales of agate found in cavities formed in maken whatele mak by straw and other but gases. The agate was corned into these cavities by underground water over a long period of veins. Thunder eggs were so named by American Indians, who thought they were nurled down from the chaters of Mount Hood or Mount Jefferson in Oregon when the spirits of the mountains were angre.

Petrined or opalized wood, petrilled ding-saur bones, jude, marble, travertine, and, of cortise, all the well-known gent of needs to be popular materials for unitable and ode-ling.

Amateur Lapidaries also out spheres and beads (page 650), make miniatures or carve cameos, or combine these with metalwack to make their own jewelry. One craftsman in Baltimere, Maryland, bas created his own silver dinner service, each piece with a occuritually out and polished again humile.

Naming of minerals usually is left to the discretion of the namer. Most names end in slice about things, and though many of the about things, such as galera and timesbur, do not follow this rule.

Many re needs that have been known since areiest times were maked from the Greek.

asualty in allusion to some outstanting property. Hematite, exide of from, was named by Throphiastos about 325 to c., from the timek boung, black from the color of its powder. Scorodite, assenate of iron, received its name from the titlek skinsdom, gallo, because it emats a disagreent to garlolike odor when neated

Stickfluss was a pame applied in the modile 1800's by German rulners to a peculiar variety of fluorite from Welsendorf, Bavaria. When struck with a humaner, this mineral produces a highly impleasant orior, reported to have caused headaches and nausea among miners.

Other names come from the locality in which a new species is first discovered. Among them are column the from the State of Colonaria; benitoite for San Benito County, Calibratia; franklinite for Franklin, New Jersey labradorite for Labrador; brazilianite for Brazilianite for Brazil, and many others.

Minerals Named for Famous People

Other minerals have been named after fanous people. Willemite, a zinc silicate, was
named in 1830 in honor of Willem I. King of
the Netherlands. Goethite, a hydrons ox le
of iron, was named in 1806 for Goethe, the
great German poet philosopher. Some saidzinc carry nate, honors James Swithson,
tounder of the Smithsonian Institution. In
1946 a new mineral from Bahvin was remod
twoseveltite, for Franklin D. Russevelt
Alwillie is a contraction of the name of
Alpheus F. Williams, a notes authority on
diamonds

There is an amusing story of the way in which the mineral mesechite was named in 1843.

charing the Napoleonic Wars a Danish ship was captured by the British Navy on route from Greenhand to Copenhagen. In her cargo were several boxes and barrels of minerals These were purchased at naction by a Scattish mineralogist. Thomas Allan, who knew only that the collect on came from Greenland. He found among the specimens two species not known before. One he named sod this; the other was named allanite in his honor by Dr. Thomas Thomas I bomson.

Later, in 1813, Allan learned that the cleetian had been made by a manerale; I maneraled Giesecke, who had spent seven and a ball years in Greenland, having been delayed by the war. Learning of the cupture of his first mineral collection, thisse he laboriously retraced his steps to applicate it.

When Gieserke finally returned home, he found that his Greenland numerals, including two new species, had already been described by Allan, no doubt most discournging news

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Mercury from Ancient Mine

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Chestest of the carries are not the world is the W twaters rand in South Africa. The Helgian Constant the source of twas the source of twas the source of diamonal produced in the warming 1950. Our sulfur

is mind largely in the salt dames of Louisis-

The parametals come from the solution group at minerals, such as copper, lead, of copers a Chulcocite, a lead-gray such is of copern, it is a long to the solution of another and iron, are the solution of the copern mined in the lamb ato mil Bane Montaga, sometime a field the marest company of a lamb and the copern of the c

Ma natite Guided Furly Mariners

the second at understance my minrel z - z u - by Romans at Alma len, Spain to the Christ, and this same mine suff is one of the world's greatest purchasers of this input, bas carried it the name of "forts gold"



Deep in a I cad zine. Mine a Rankhai ne Fryds Wightenste.

Thin is the first that a late of the cade to the cade t

Practically all out from comes from members of the oxide class of minerals shematite in the model of the last to most abitudant, is found in commons quantitie of at monormous quantitie of at monormous desired, such as the Mondi kange in northern Minnesota. Manager to the sometimes in a true sometimes in the solution of the early mariners talked fodestone, from which early mariners their first rule company.

Chromite gaves us thropia is the interitable principal to mineral, is one of the few found newhere in the line of bridge in large opens. In the line of the few placed high an the "strategic list" in times of

war. Deposits on the Malay Peninsula are the world's richest.*

Quartz, oxide of silicon, is the second most abundant mineral in the earth's crust, in rocks such as grante, grees, sandstone, quartaite, and heath sands. In addition, quartz has important uses in the manufacture of glass, sandpaper, oscillators for the control of frequency of ratio transmitters, and many others.

Chalcedony, a freegrained variety of quartz, in its almost limitless tamifications of columnate form, provides the rockhaund, and especially the number lapidary, with a wide variety of uniterials, such as agate, jusper, bloodstone, carrielian, onyx, and petrified word.

I'crhaps the most important of all the oxides from its utaninite, exide of utanhers. This beavy black numeral and the bright-yellow and orange utanium minerals associated with 1 are the world's chief source of the essental ingredient both for the atom bomb and for peaceful uses of atomic energy. The three greatest utanium mines are in the Belgian Congo, Canado, and Czechoslovakia.

Carnotite, containing potassium, vanadium, and that item, is one of the important sources of transium in this country. It is mined extensively in deposits wilely scattered throughout the Colorado and Utah plateau country.

Even Ice is a Mineral

bre too is a mineral, an oxide of hydrogen, which, in addition to its well-known forms as me, snow, and frost, is an important took-forming mineral in glaciers and in the icecaps of Greenland and Antarctics.

Our common table sait, chloride of sodium, is lighte, one of the halide class, compounds of metals with theorine, chlorine, browine, or indire. The occasis contain some 4,800,000 abic miles of common sait. Another of the halices, tentral tite, or silver chlorice, was named "horn silver" by early miners in alterior to its brown, wary appearance and the fact that it could be cut at the knife.

Calcite, or naiding carbonate, is the chief constituent of limestone and marble, and partland rement and lime are manufactured from it.

Kerrite, soliton borate, is the most important commercial metric of borax. This mineral is unique among ores because the processing of it yields nearly one-third name borax simply by arbling water. Kernite is mined at Kramer, in the Mojave Desert, California, the world's largest single source of this commodity,

Nitrate deposits are extremely valuable as sources of fertificers and explosives. The largest are in Chile's renowned Atacama Desert, an area so arid that often no rain

falls for several years.

Most important of the phosphates is collophamite, chief constituent of phosphate rock, a brown to gray earthy-looking material which is our chief source of the phosphorus used in fertilizer. In the United States it is formed in Tennessee, Wyoming, Idaho, and along the Atlantic coast from North Carolina to Fiorida

Gypsum Windows for Bechives

Most election of the substant of ground and substantial field of the Romans placed windows made of clear cleavage flakes of cypsum in their bechives so that the bees could be seen at work.

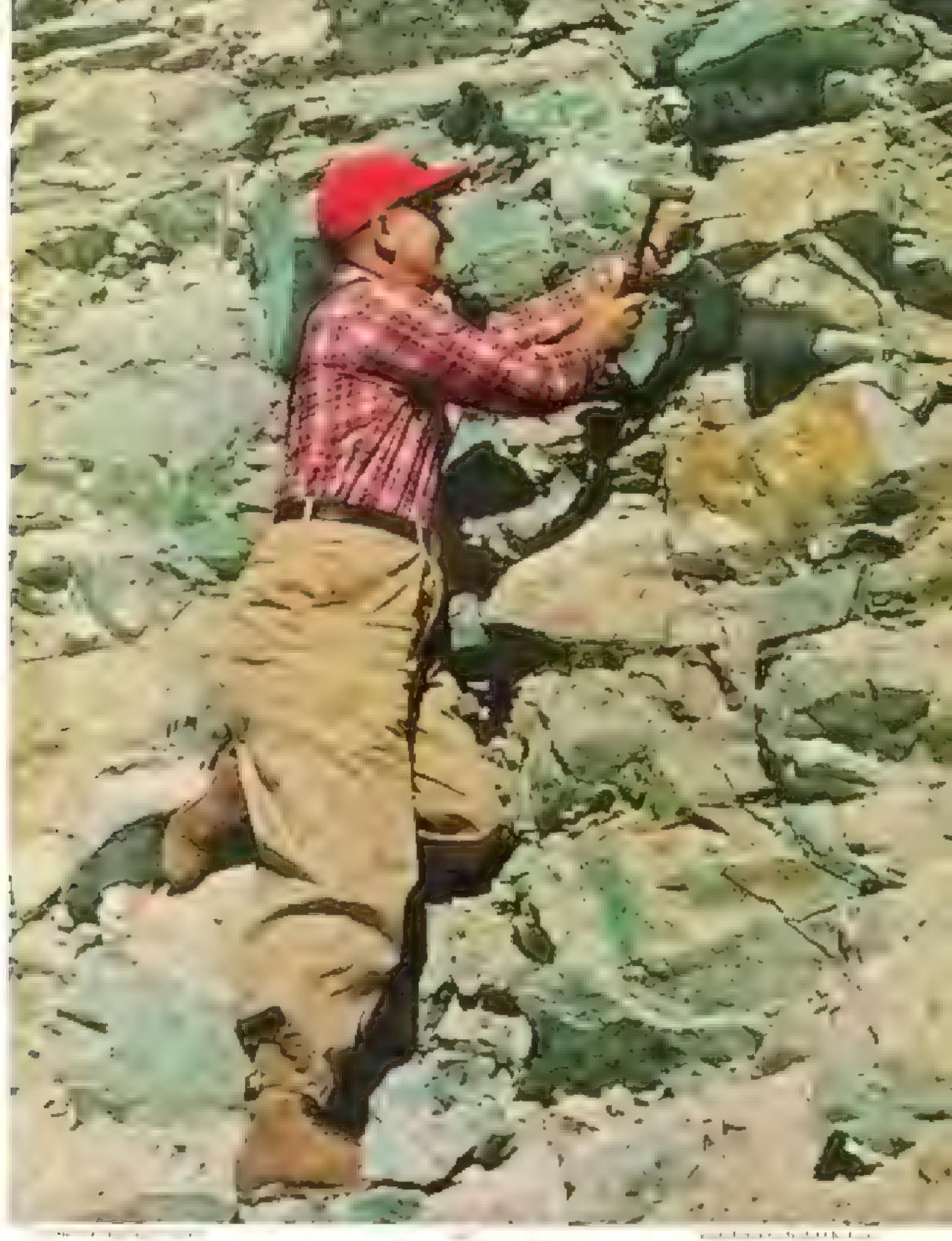
Silicates are metals in combination with automs of silican and oxygen, some with and some without water. The most important of the silicates are feldspar, pyroxene, amphibole, and biorite, for these minerals, plus quartz, compase more than 50 percent of the curth's crust to a depth of 10 p ilex.

The micas are characterized by their fluky, or micaceous, structure. Masonvite, one of the racas, in addition to being a common constituent of many types of took, sometimes forms in large crystals and is split into thin sheets from which a large variety of articles are out for use as electrical insula crs. At one time it was unmounty used in stove front and known is isinglass.

There is space here to mention only a few of the more interesting of the 1.000 different species of minerals. Uncovering their beauty, any rockhound is some to find opening before him a new world of interest and fascination.

* See to the Norman Cook rupide Magazina. Tholiving I'm Roof of the Amazi, by Henry Albert Pholips, March, 1943, "Metal Sinews of Strength," by Preserval G. Kosburgh, April, 1942, and "Tin, the Confereda Metal," by Amer O'Rearth & Overbeck, Navention, 1945.

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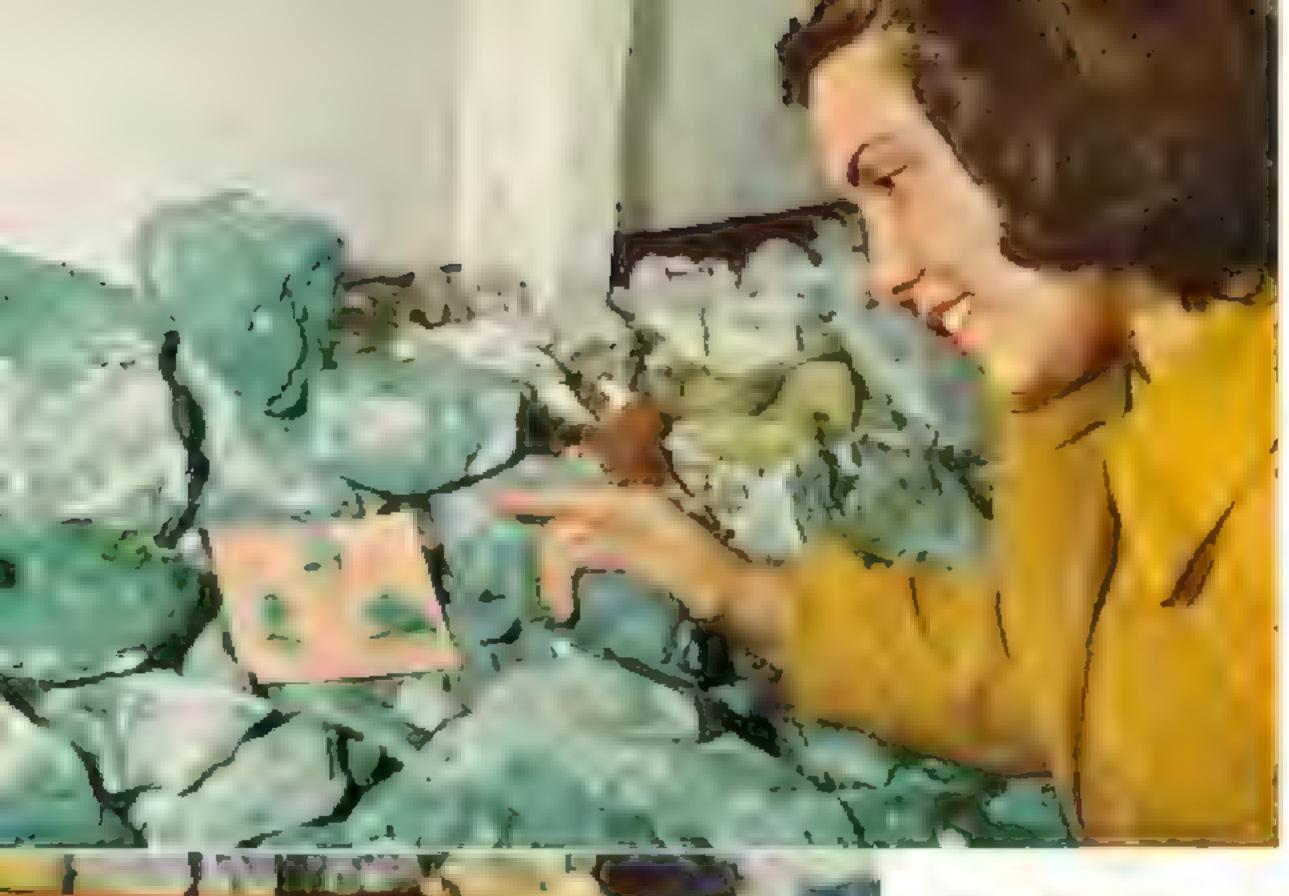
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Minerals Through the Macroscope: Oliving (Feb.) and Harmblende Reveal Complex Patterns

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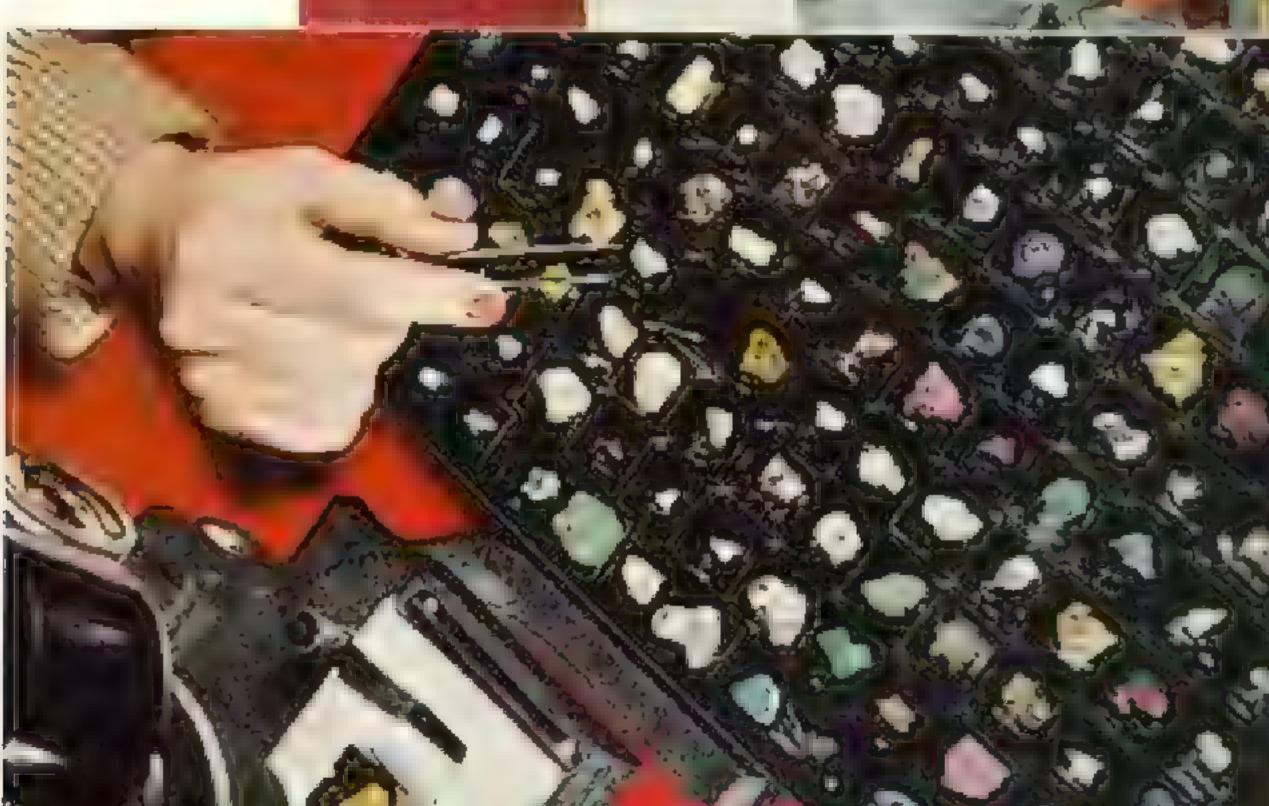
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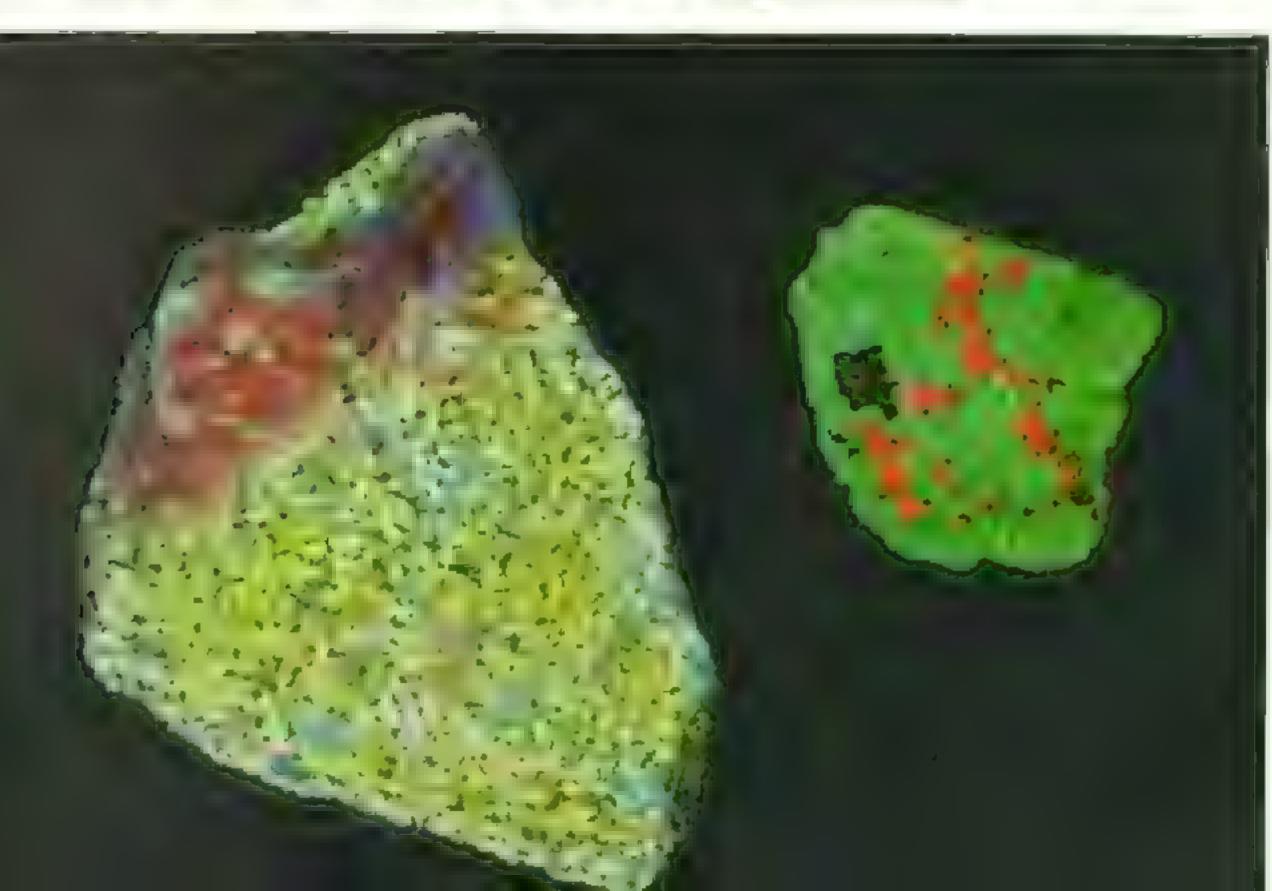




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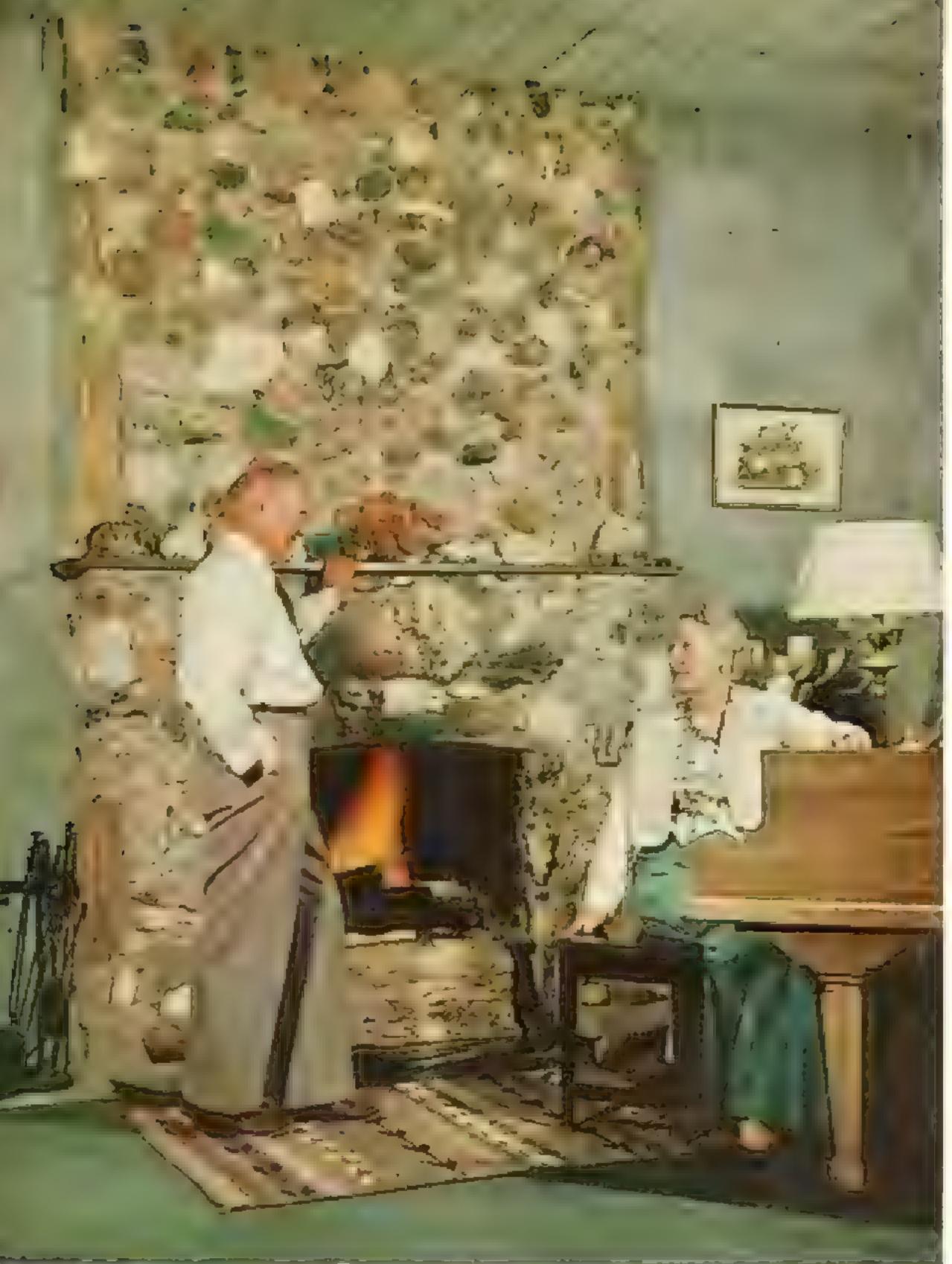
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New Guinea's Paradise of Birds

By E. THOMAS GILLIARD

Assistant Carator of Land., American Massian of Satural Bistory

O's a zoniogical expedition to New Guines, we were told, we should be sure to take along a good supply of somethals.

In the manatainous interior of this, the world's second largest island, a soccer ball would buy more food and hire mure labor than all the financial resources of the American Museum of Natural History. Among the parties who live there, many of whom have never yet seen a white man, the concreted American dollar is worthless.

Other useful currency, we were advised, would be red powder paint, glass heads, stick tobacco, newspapers (any age), and shells,

especially gold-lip oyster shells.

With these we would be able to buy from the natives not only hours and weeks of mustle power but skilled help in finding the birds, insects, plants, and mammals we were steking. To earn half a thimbleful of red loss is, a pative naturalist would search hours in the jungle for a rare bird specimen. To win a couple of gold-lip shells he would carry a heavy pack for two-and a-half months.

Our advisor, one of the few men in the world competent to supply the information we needed was an Australian explorer tamed Ned Blood. He had spent a number of years collecting times in the New Guinea heartland for the Toronga Zoological Park he Sydney Besides hints on equipment, he told as that the best months for traveling in the mountains would be the cool, dry season from April through mid-August.

Airlift to the Stong Age.

At 8 in the morning on April 17, 1950, Ned and I took off from Lac in a little twin-motor De Havilland for the mountains of New Gninea. Our engines strained under a pay and of 1,200 pounds of paraphernalia, including guns and 5,000 rounds of ammunition, still and moving picture cometas, 15 gail as of embalming fluid, and 10 pounds of arsenic.

This was the beginning of a top which was to take are, with two companions who foined me later, into unexpirred forests of the high treat of the island. Before it was finished, we would spend 103 days in the field collecting more than 3,500 specimens of bards, manipuls, plants, and butterdies.

Our special objects were certain rare mountain birds, particularly the male of the ribbont-tuled bird of paranese, Astropia mayori (page 677). This bird, with a brilliant green body and a slender white tall more than three feet

long, is one of the most spectarular in the world. Until 1948 no live males had ever been seen outside central New Guinea, and

specimens are still extremely rate.

We flew that morning high over the great braided Markhom River, heading generally northwest and biland toward the valley of the Wahgi River. This valley, about 75 miles lang, has been farmed for coany hambads of years by the more than 75,000 Stone Agraborigines who live there. Only a computatively few years ago their very existence was upknown to the out-ide world,

New Guinea, 1,500 miles I arg and 400 miles wide, sits in the stape of a gawky vulture astrict Australia's back, its ugly heak facing west and opened as if to devour the Celebes, Romeo, and Singapore. Its western, or head, balf is governed by the Netherlands, its tail balf by Australia. Ramning west to cast, from beak to tail, is a spine of formidable mountain ranges. Despite work by a host of naturalists, scarcely more than the head, peck, and shoulders in the west and the ungainly tail in the southeast had been explored.

The Girl Who Lived in Shangri La

Many Americans became familiar with the shape of New Gaines during World War II, when the Japanese attacked it. I saw parts of it when serving with the U. S. Army. Later, in 1945, an American C-47 transport place crashed in the central mountains. One of three survivors was a pretty WAC corporal, Margaret blastings. Her story of weeks in a laity "Shangti La" peopled with tall, pagnaising tribesmen was spread around the world by radio, newspapers, and magnalnes.

Actually, New Gulnea's tribesmen of this area had been "discovered" more than a decade earlier by Michael Ledry, explorer prospector extracrdinary, who in his scoreh for gold roamed hundreds of miles through the more than our retrieve and found the great Wahgl Valley. Later, in 1938-30, the Richard Archbob. Snow Mountains expectation studied the interior around Mount Wilhelmina, further west, for burd and managed life. "Now, with back. I was to push the exploration of this naturalist's meeta a step heater completion.

In our plane that marriag we followed in an hone and 10 minutes the 250 tortuous trail miles Leahy traversed in making his initial discovery. The Wahgi rises on the eastern slopes of Mount Hugen, the wiles based

* See "Unknesse New Guitara" [19] R chard Archabell, Nationals Labor barries Managest, March 1941.



New Gainea Man Chateling Province Weapons, Watches the 20th Century Move In-

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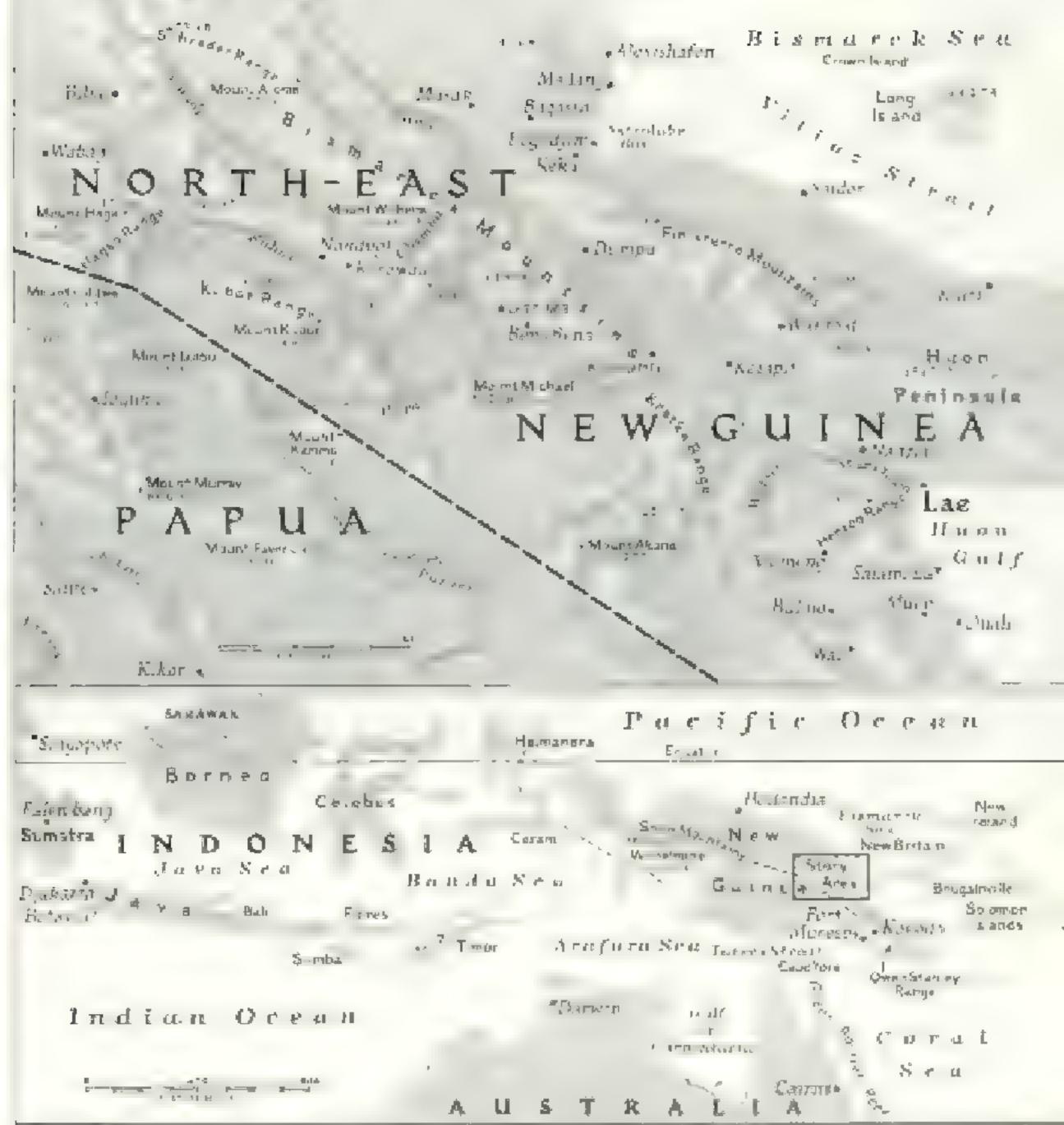
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New Guinea's Mountains and Valleys Are Still Largely Unexplored

Entring 1 to kers. Hertime the author found more than 20 unknown. . . . chimbed a 15,400-foot peak never before realed not visited packs and abstrated, others no white man had ever seria before. Mr. G. tard to read the Kubara, 3, ount flacen, and Mount Wilhelm. Upper paction of map shows his explanation area.

no com. Around it were thatched native houses and flocks of healthy sheep, carried in my plane from Australia (page 675).

This was Nonough established in 1947 by Ned Blood with the backing of E. J. L. Hall-strom. Australian manufacturer, naturalist, and pullanthropist. Through shipments of livesteak and plant seeds to the Wahgi, native agriculture and diet are improved: from Nondugh, in return, many rare animals and birds have been stot to the Taronga Zon.

At Nondingl, under Blood's direction, has been gathered the greatest collection of birds of paradisc ever seen by man. Many have been combitioned to cage life, then transported by air and coastal steamer to Sydney. Though commercial shipment of birds of paratise has been braned by law since the 1920's, the Government still permits a limited number to be taken out for scientific study.

The Art to New Gomes," 16 Ht. No.



Shell-ermaned Hanters Display the Manning's Clatch of Checuses

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Jungle Train—One Mile Long

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Fig. day early to the large and the large an



men (their number grows as we progress), who bear the precious fruits of our laborsthe scientific material already collected. Theirs, too, is a fragite land. Inagine, if you can, moving 10 or 20 mules a day through a wilderness carrying pre-sed flowering plants between Livers of paper board, hage skins of cagles, immensely bug-tanged lards of paradise, and handreds of delicate butterfiles in indicional glassine entelopes.

Halk weight turpquiles, tents, lister Lags. drinking water, feel for light, amounition, rould saft in Mapeumd bags, bedding, food, etc. snake up the last third of the line. At the tail and comes the rear guard, two (rested) ratives carrying bush knives and she brons. Just ahead of them trudge two boys with the medical gear. Injunes personnel always

show up to the rest

Helimithe carrier line proper there usually trailed a raggest tail of spectators and hangers-on. Most of the spectators were men from the villages through which we passed. Stimulated by the excitement we created, they dressed then selves in full regulia, with shells and plames and paint, and joined the parade for a few miles through the jungse.

The hongers on pursued us more furtisely and kept their distance. They were girl-"young fella Marys"—dressed is their party lest, who had a methow became engreeced th one or another of the current and could not tear to see him vanish into the jungle.

Couriship in the New Guinea highlands runs a parrow course between remance and commercialism. It is true that women are bought and sold; a good prospective wife is worth up to 15 "things," usually right or so large shells and as many pigs. It is also true that polygamy is common and that a man's three to sears wives are virtual slaves. Their daties include working his land, tending his pigs, conking, and rearing his numerous chil-71

Nanetheless, the young girl retains certain pretogatives. Though she is to be sold, she may use her womanly guile and blandishments. to select the purchaser. Once she has armised his interest, she clings to him tentalisately while he strives to save sufficient funds to buy ber from her father.

How Natives Greet Their First White Man-

Such was the team which traveled into the big bush. On the first section of the surver, heading southwest into the great Kuliof. Range, I led the expedition plane. My last contact with a white man here was at Kup-Mission, pioneered by youthful Father Michael Bodbar, of Pittskurgh, Pennsylvania, whose help was of greatest value. As we followed the ancient, deeply worn tralls into the naturtains, I found myself leading my line into populous valleys where no white man had ever been before.

The beauty and complete naturalness our trids among the fierce but friendly people who live there are qualities of great attraction. I shall never forget my squirming and compicte embarrassment when a group of them converged on me as if racing toward a godof some sort and embraced me by bending and kneeling, then langing in and lifting me high overhead in a manner most paralyzing and personal. On the side lines others held up their right hands as if wated and figured them sideways, repeating in singuing, "Aya, nyst, ava" (page 684).

It was from these people that I recruited my hunters, all of whom were amazingly fine marksmen with both arrow and speak. With slender three-pronged arrows, heavily bached and fastened to long straight reeds, they kill small birds for food in great numbers. This also eat small kungnious, fish, frogs. rats.

grubs, and even mushrooms.

The highest villages I saw in this generally high country were at roughly 8,000 feet in the Chimbu Valley region. In both places the untives live in low-roofed, carth-fluored, rectangular grass-thatched houses. Faith is blood t the size of a one-car garage, with side wasts three feet high fashioned from split casuarity staves driven join the ground.

An authing three feet wide in the center front provides the only light and nir. About four feet inside a fire burns constantly. There are no chimneys; smoke filters out through the grass roof, Between 5 and 15 natives

five in such a house.

A Specuful of Sait for a Bushel of Food

Travel in the wild portions of New Gumea is vastly easier them in many other equally wild countries because foud is plentiful. Inthe Walker region it wats our custom to "sing and " to the local chief. On hearing our needs, he would cap his big hands alway his mouth and hellow out a barrage of rolling notes,

The wives then went into the fields, gathered food, and brought it to us. We pard for it with rock salt, a commodity so valuable that natives travel long distances to harvest soulam man)s from volcanic springs. When we paid a tablespoonful of rock salt for a basile of sweet potations or a 30-pound fagot of tender sugar cane, they churkled with give at the hard bargain they had driven.

I was amazed to discover that these intelligent people had a comprehensive knowledge of the local third and farma. All then of chief rank knew the antividual names, songs, and I fe bistories of nearly every species of line

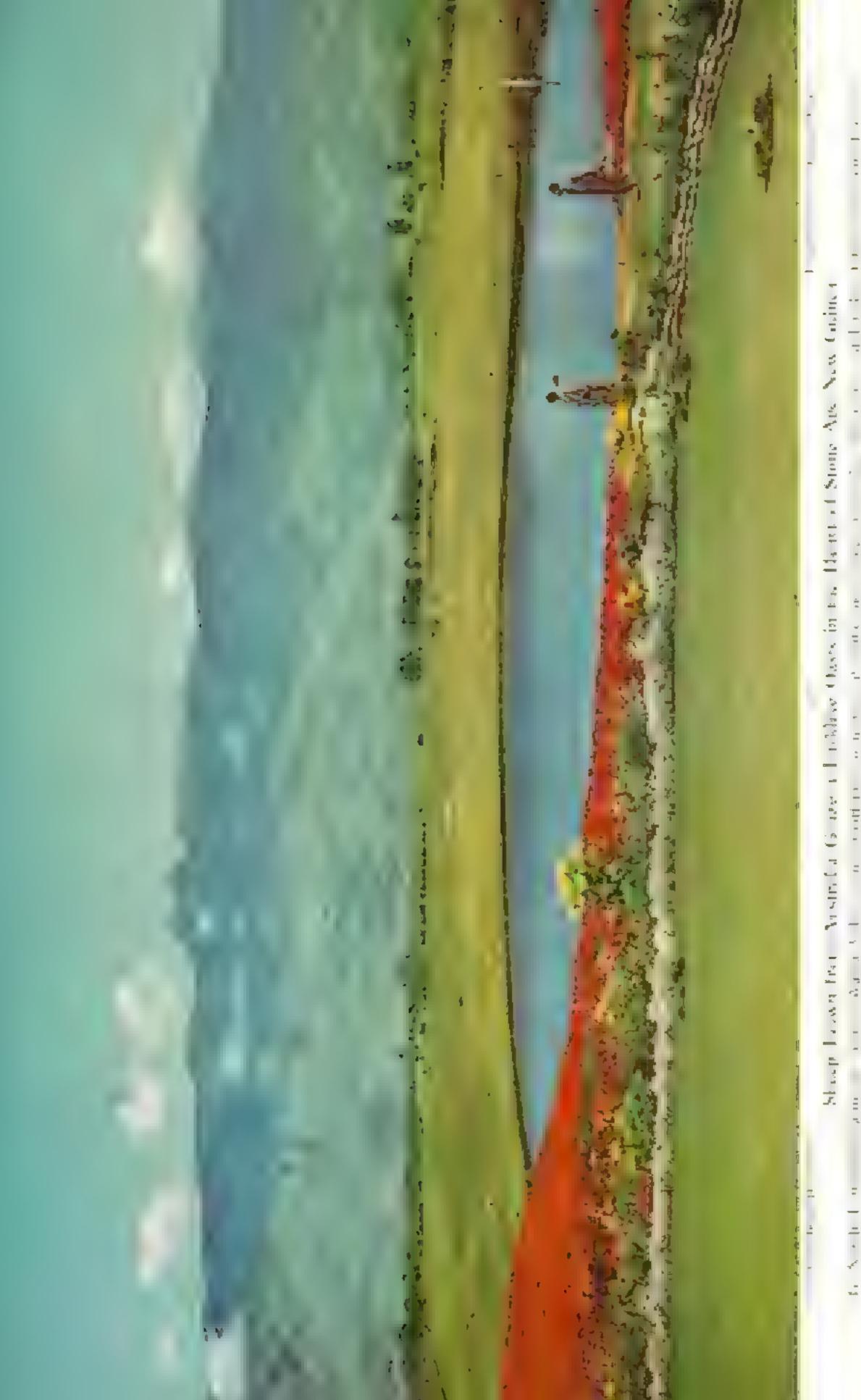
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Carebox a Range Broughbar Mag

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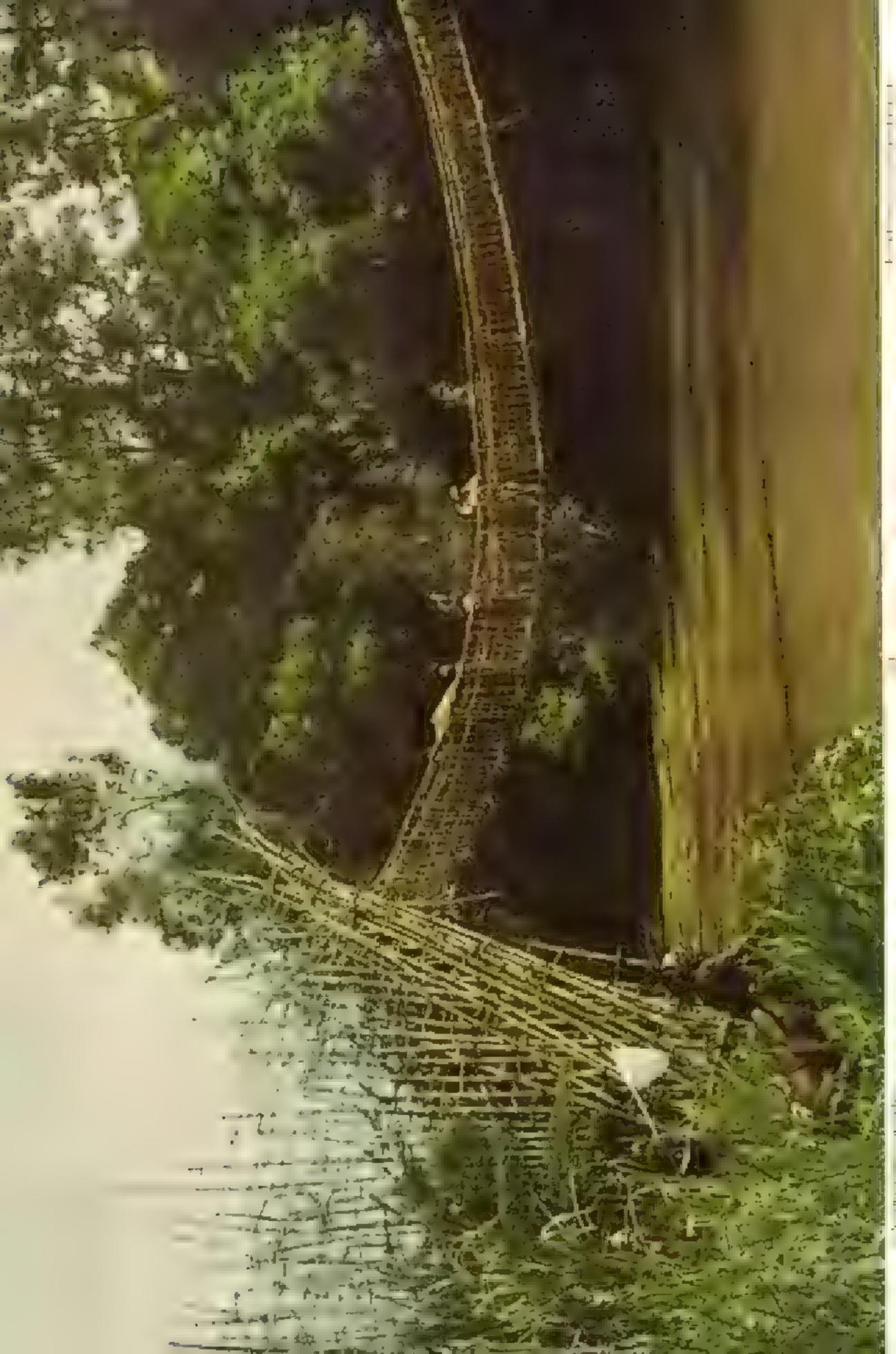
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A William Rivary New and Barthon Pindes Sales bud Does Not Same

Note that the second second







When the Clamer When Pating? Moneyty Levelads

a (= 1

Supprisingly, they had the highest respect for the work of the naturalist. They seemed to segard this breef of white man as the sanest of the curious assertment which had so recently descended from the sky—sanes, for instance, than the men who spent hours a fring the river beds for useless decks of gold. This was a refreshing change from the view of civilized people at home toward the changeer who cases over the landscape trailing a latterfly net.

We profited greatly from this understanding attitude. Local natives quickly joined in the spirit of the expedition and brought us rare specimens, for example, one chief ran 15 naises at breakneck speed carrying a lude spine-tailed animal which turned out to be one of the farest marmals known. It was an earless water rat, Crossomys morektori, much sought by naturalists in New Gairer. The only other one known to exist was found in the highlands behind Port Moresby to 1907. It has been stored in the fleight Museum for many years.

During the first part of my stay in the Kubors such assistance was especially valuable, since I was alone and could not stray for from base camp. Teams of natives led by a No. 2 boy appointed by the fixal chief would disappear for days at a time, only to emerge when they had acquired birds which they knew I did not already have. They climbed to ultitudes of 11,000-13,000 feet and there collected a number of birds unknown to science.

For the first 20-odd days of the espedition I depended heavily on such local help, I hen, on May 19, my assistant, Robert Doyle, them in from Australia and, less than a week kiter, came tradging into my base camp in the Kabots.

Doyle, born in Brisbane and a veteran of 13 years of exploring and prospecting in New Gamea, now owns a coronat plantation on the coast of Bougainville and also operates a gold mine on the same island. When he heard from Ned Blood about the American Museum's expedition, he decided to take a vacation—exploring in New Gamea.

With Dayle to take charge of the base camp, I was able to make some more extensive field trips in the upper altitudes of the kubora before we moved on tigether to our main objectives, Mount Basen and the ran bon-tailed bird of paradise

The Bilthon-tail Is a Controversial Bird

The righon-tall besides being one of the most beautiful pirds in the New Guinea high-lands, has also been one of the most controversal.* The controversy centered chiefly around this question: Does the ribbon-tail

mate and hybridize with another bird of puradise, the Princes Stephanie? The adult male of the Stephanie resembles the robon-tail, with the important exception. While the long tool plumes of the ribbon-tail are white, the Stephanie's are black.

The argument began when a few specimens of religion-tail were found with talks half white and half black, or a third white and two-thirds black.

The point is an important one to ordithorgists, partly because it relates to the complex and highly standardized courtship rituals which the blads go through of matine time. These tituals, varying from one species to another, often fail to prevent hybridization.

So but did the argument become that In 1950 it was suggested that all of the meager evidence available be gathered and analyze thefore a board of authorities at the Tenth Internstinual Ornithological Congress in Sweden.

The Answer to the Riddle?

I think I be und the answer to this formous ridde. On Mount Hugen we found the ribbon-tail living in great numbers in the 7,300-10,000-foot rone. In fact, in the deep virgin forests we were startled to find that, except for the prolific swiftlets, the ribbon-tail was the most common of birds.

To desplay their gorgeous and shimmering plumage, Linds of paradise sometimes choose clearings on the ground in deep forests, but more often select branches high in the trees. Favorite branches are used so frequently they become skinned with wear. Usually the birds, including ribbon-tails, pick trees communding vistas of forest and rulley; favorites are dead trees at the forest's edge where there is no follage to of scure the view from admiring females.

Il wever, as I hunted through the forest of Hagen day after day, observing many birds of paradise, I did not see a single adult Stephonic. Moreover, it would have been hard to miss one if it had been present. With its brilliant green, yellow, and black plantage, the adult made Stephanic cannot be a fetaken for any other hird in the world.

In the absence of this important ingredient, arbifdization seems highly unlikely. Recent study of the species in New York indicates another answer to the varietated tails: they are simply signs of juvebility. Some birds of paradise are known to take four and pertups as many as six years to develop their full adult finery. It seems I kely that the ribbon-tail starts life with a dark tall, which

^{*} See "Strange Courtstap of Black of Paraduc," by Disant Rapley, National Green applie Marketse, Febtuary, 1983



Skewered Skulls Prove the Heater's Skill

bumos opy a that human shulls cruck decensed the trouby earlies, now a summal beads are shown.

As exciting as in line the radioretail was be discovery, deep in the forest, of the dance cround of the Acchib dias bowerhiels. Members of this species thouse a spot overgrown with tall ferns and make a clearing roughly total in shape and mant fore feet some. The love of the hower is possibled with dried fern fronts. In this green makes and females appears the need daily to dance, casent, and particular specialized or the hower specialized or the hower specialized or the horses.

So excited was I over the first speciment of this howerbir! to be havinght onto I are camp that with great ceremony I pass the equivalent of a year's wages for it. Old pary payment for a hird, until now, had been had a third-deful of ted bearls.

A Fortuge for a Bird

Les of which we steel of a steel as in the single of the week), a Collins markete (one mounts), a of the single of

My motive in making this outrageous payment, which visible staggered the 70-odd native ablockers, was to stimulate the gathering of specimens. Our time on Mount Hagen was now getting -hast

A control of the control tale control in the truck the state of the property of t to now with animals, that the their resound to the screams of monkeys, the bugle only of birds, the it cowant havring of inserts, and the hissing of feroclous reptiles. This colorful. picture, wherein one must prerang with jourgerly to see H it well arawl away, is based in or resisting then on teath. For the emand I have builted legh moterage forests for birdwashing man that the arripg the care, to obtain more than A THE SECTION OF CAME PROPERTY Control of the Contro parallel 191 The care to a milet Her a Very to all learned broots

In early J.2 another event hilped some law to early a to gging, preserving, and classifying our game. Heraland by an a soing our cause of native

vells for down the trail, the third partner in the specific at arrived from Nonch gl. He was William Lamont, specifican, bunter, veteran of two Wirth Wars, and long time resident of New Gairea. He and I had worked together on another excedition two years earlier. To nin the present one he had chartered a plane, thown in as far as he could, then walked the nest of the way, hiking the last 60 miles mostly wind, in two days (page 687)

but the next there weeks. Doode, Lamont,



Wreckage of a Wattime B-17 Sparkles on Mount Wilhelm's Rocky Shoulder

Thirteen Asser cases were a livel in 101, when the plant cousbed a land the 15 400 f at mountain. Fragments were sensepted across built a plant pute. Here the author examines a propeller and a bone.

and I held down camps thousands of feet apart or the south flank of this great mountain. Hunting was done from a but built at 1 00 feet, 200 feet above the free line.

At this a titude there are fores, chill winds and occasional frosts. We employed the actives who stayed of the high camps with rain capes, blankets, shirts, hip-hips (cloth kilts), and wooden sweaters. Unfortunately many of the men seemed to regard these of the valuable to wear and carefully stored them away

One night at 2 n.m., in a driving wind, I inspected their seet house and found them mactically nude, as always, ruled in tight knots and shivering acticeably in the beam of my light. All were wide-twake, but seemed to be in a torpar; even the smoky fire lead been abowed to the. Thereafter I assigned one matice to sleep all day and tend fire all night.

Off to the Bismurcks to Find a Dock

One species of hird I sought was not to be found on Mount Hater, or in the Kulors This was a care duck, Saleadoring, which has been the object of several expeditions sour halfway around the world. As a likely hunting ground I chose Mount Mathelm, in the dismarck Mountains. Standing 15,400 feet high, tailest peak in eastern New Grinea, this mountain has two latty crater lakes which I haped might provide a habitat for these extremely rare binds.

To get there we colleted the Lat of Robert Gibbes, one of A establish most decorated war have and most quality protessional bush part

tempt the trip from Wakgi to Mount W. helm. The flight leads through the great Chunha gorge, where giant forested walls rise to 10,000 feet and box in the plane on three. The landing must be made on a steeply with untive labor at 8,300 feet on the mountains thank.

tibbes put the plane dawn as lightly a feather. After we had piled out In happeness for and six trained autives—he to I of many immediately, promising to return for us at 9 a.m. 17 days later.

In this region, population pressure has pushed native farming up the mountain to a beight of 8,300 feet. Below this, the land

has been denuded of trees and planted againand again in sweet potatoes. Some of the gardens are so storply terraced that ballers tire used to get from one level to another.

The son appears tich and dark, but in repliev contains a large amount of insoluble clay. The hill farmers, struggling to keep one step ahead of starvation, have worked out a precise system of rotation to rejuvernite their worn-out land, fills byokes alternate | haddings of casuaring trees, reeds, sweet palatives, small tubers, and a sort of gross known. ar New Guitten asparugus.

The casuaring trees, after a time, are systematically stripped of their limbs. These, along with special reeds planted on the fallow land, are periodically burned. All the while, pigs turn and manure the soll until it is rearly for planting again. It will now yield large, nutritious fatal as for another two or three years, then small ones for an equal period. After this the cycle begins once more,

Among these mountain farmers lives Father V. Tropper, a mission my wan pushed into this. wild regain soon after it was discovered. He is greatly liked by his native flock. At his request they shouldered out gent and a large supply of native food and belped us to our of jective: two clear lakes surmanded by Jagged peaks of bare rock reaching more thur (5,000 feet. The lakes were ringed with patches of beautiful, messy chonoclen from forest, thick and above the penetrable. Once there, the ontives left us on our own.

Here we callected and prepared skins with a fervor which sometimes carried us almost around the clock. At times frigid winds forced us to sleep in our feather-lined sleeping bars but your bolic wild e so the hear ment in September. Best of all, we found the takes thinly populated with Salvadari's ducks, two specimens of which we were able

to collect.

Challenger a New Menustain Peak

The Incal natives identified a promontary just above us as the true top of Mount Wilbeim. However, during several collecting trips to 13,000 feet and beyond, we observed and sketched a peak considers dy higher to the north. We finally realized that the na-Tyes were wrong about the true bautim of the summat. Yet the lower peak, we knew, was the one that had been climbed and marked as the top of Micunt Wilhelm.

Almost against my better judgment, for this was not a mountain-dimbing expedition, I decided to tackle the true summit. My plus was to leave before dawn, chub until 1:30 p.m., and then, regardless of how far I had gotten, head back for the take camp. Dovle, who had had a bout with mountain

stekness, would stay behind ready to send

up a result prily if recessary.

We started from base camp over wellprepared hunting trails, pioneered by Doyle, bordering the inkes. Then we worked our way several thousand feet up a great stony thank to claffs split with chimney cracks. Trum the top of these clufs a long ascending kinde ridge undulated northward to the foot of the imposing rock pittar which was the actual crown of 31 cast Wilbelia

Hy great good fortime the day turned bright and clear, and by 12:10 p.m. I stood with two natives from Nonduct on the summit. 15,400 feet above sea level. I then wrote a note on the stationery of the American Museum, giving details of the climb, and scaled it in a best less I placed puder three states on the summit of the sharp peak.

B-17 Marks a Tragedy

With my binorulus I could see, half a mile away, a calra which had been erected on the other peak, about 300 feet lower than the one on which I stood. Earther east on it rampart of this some mountain glistened the remains of a B-17 which had crashed in 1944. with 13 American deaths (page 679).

The vista of mountains to the east and to the north and northwest—the Finisterres, the Schraders, and the great tall of the Rismarck* -was less clear than off to the west, where the valley of the Waligs lay in the distance Benird this lay the backdrop formed by the

50-mile Kabor Range.

To the southeast rose the great peaks of the Kratke, the Herzog, and, far off, the Owen Stanley Ranges We sat for some 40 minutes. shivering by the tiny catro. Before we left. I unwrapped from its waterproof casing and held maft thin No. 128 of the Explorers Club. Then we headed back down to the pase camp-

When we left New Guinea early in August, we took with us 1,800 study skins of burds. representing 136 species and subspecies; more than 10 have proved unknown to science. Among them was a new bowerlird, which we burned for the late Dr. Leonard C. Sanford, truster of the American Museum and sponsor of this expedition. We had also secured 96.0 skins and skills of manipuls, 650 herbarium specimens of thowering plants, and some 506 butterflies of 32 species.

Behind us, with real regret, we left hundreds of natives who had become our friends. We also left, for later expecutions to explore, the many anktawn maintain ranges and pockets of Stone Age civilization still undiscovered in this naturalists' paradise.*

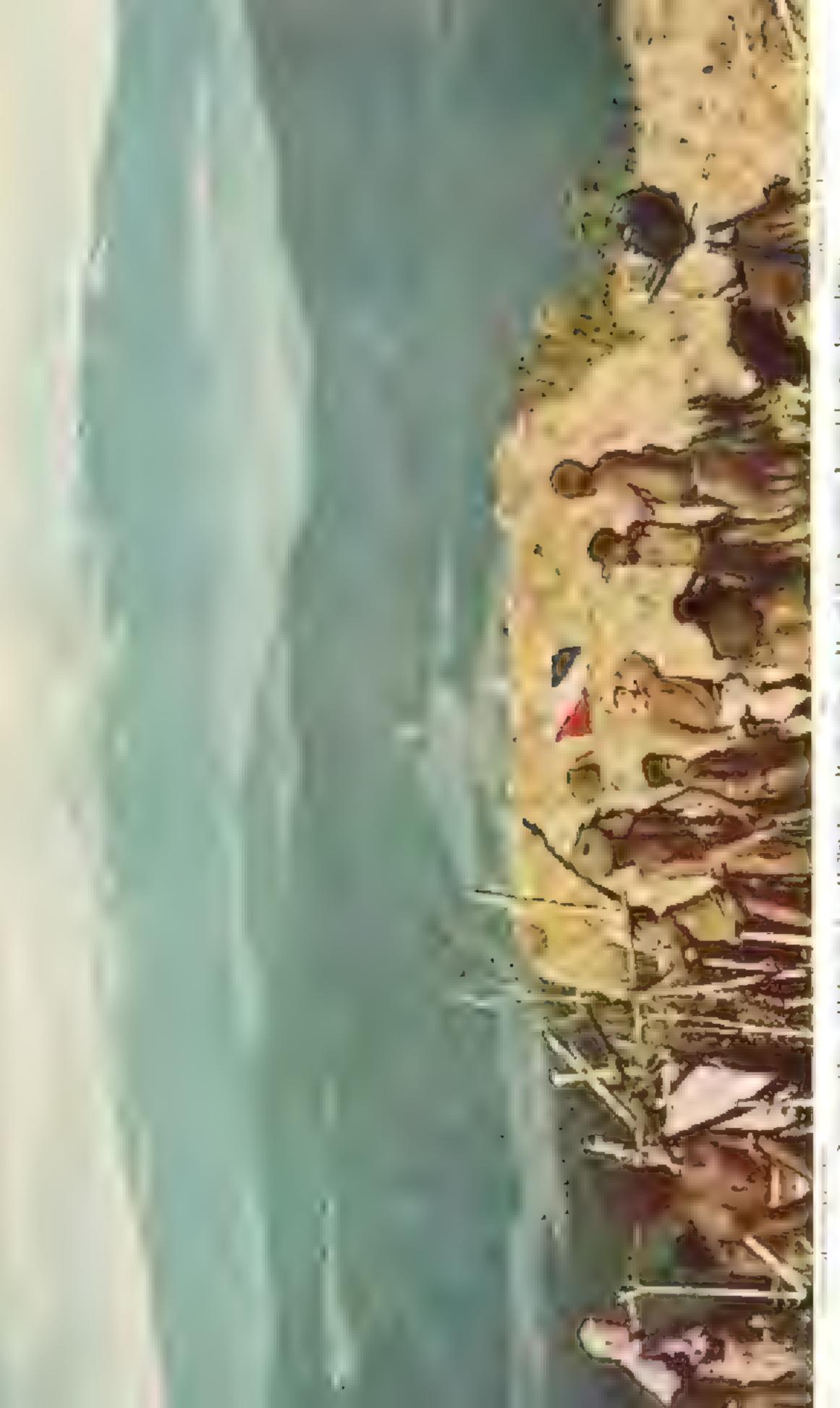
* For add the nat arricles on New Guines, see "Na-THOMA: GOVERNMENTS MAN STARK CLIMBIALISM Index. [870-[U40] "



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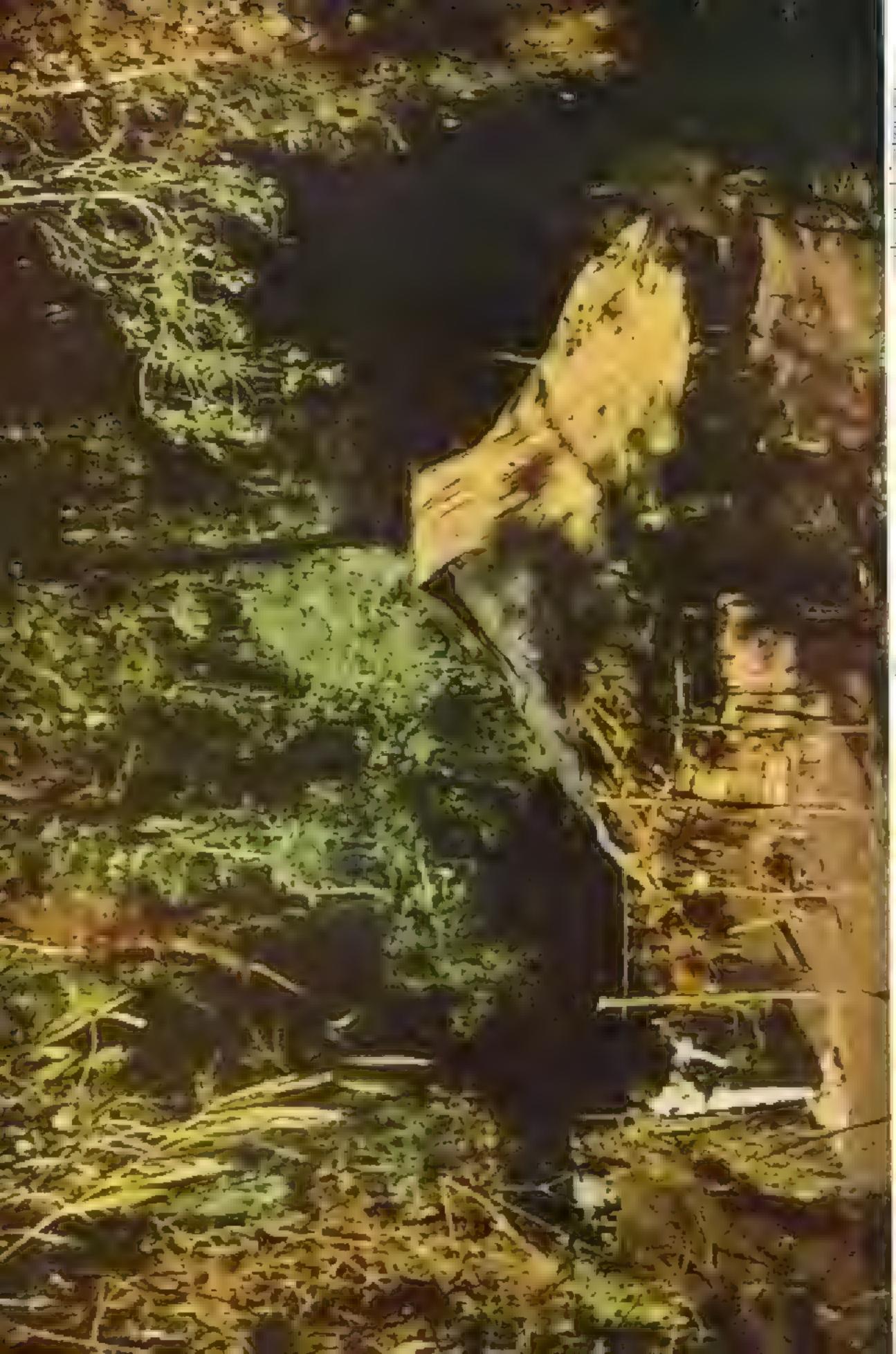


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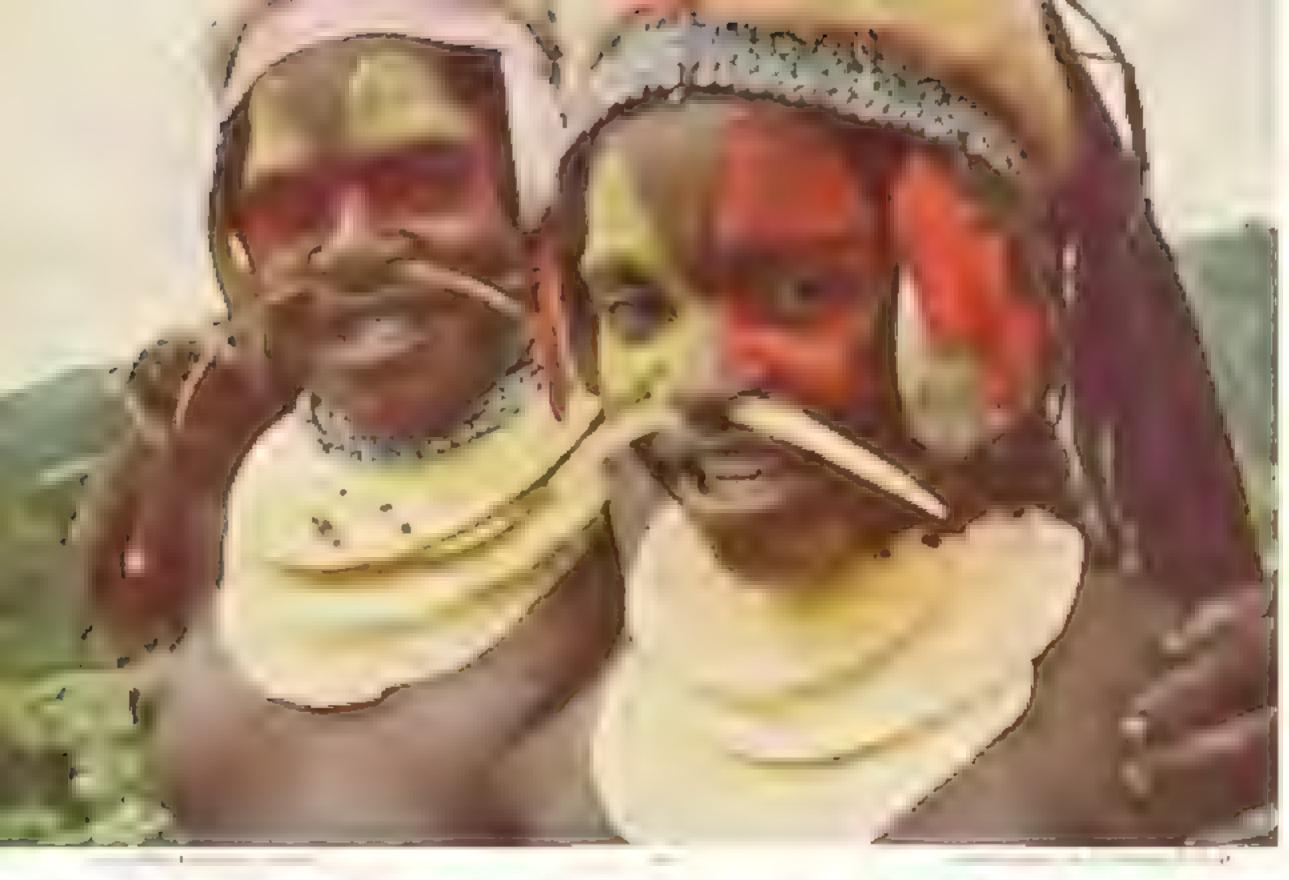


Long Peoplest Spland Coronal Lover Caps of Nordard Men









* Husband Brooks West is Peace Lies Fact Labors' Shell Signs

ice r Brown to Some Lip



Berlin, Island in a Soviet Sea

BY FREDERICK G. VOSBURGE

Hack this state on the Netherral Green of mr. Phat accepts a fall mean Hanget

A I a Russian but in the middle of the road, wooden barriers blocked the hroud route to Berlin from West Gormany. A Russian soldier with purple-red shoulder boards, hammer and sickle insignia, and a businesslike-boking submachine gun waved our car to a halt.

Plling out, we went into the little hut, bare except for pictures of Stalin and Lenin,

Behind a wicket ant a Soviet soldier with a peasant face and suspicious, knowing eyes. In limping German he ormanded our or lerand passports, then squinted up shrewdly at the National Geographic photographer, "Kurt" Wentzel,

"Wentzel," he said. "You are a German," "No," said Kurt, indicating his U. S. passport, "American."

"Deutscher Name, Deutscher Name" (German name), the Russian insisted,

An Indian to the Rescue

"In America," I interposed, "there are many people with German names; many with Russian names, too. In fact, all our names came from some other country, except those of some of the Indiana. They were the only people living in America in the beginning."

The Kassian broked utterly blank, as if he

had never heard of an Indian.

"Here, I'll draw you a picture," said Kurt. Quickly he sketched an Indian chief, com-

pilete with bunk pase and feathers.

Light damned. The simple face greated in a amile. Nose close to paper, the sublict scrawled in his big book, banged a Russian stamp on our orders from the U.S. High Commissioner for Germany, then handen us back the papers.

"OK," he said in English. The public redskin seemed to have saved the day. But as we left, the Russian was still repeating. 'De awher Name, Deut-scher Na-me," like a child wrestsing with a problem too big for him.

A Slip in Geography Means Trouble

This encounter at Helmstedt last spring was our introduction to the Russians, who control all access to Berlin, deep in their zone об Gелиьлу (пар. раде 694).

Just before, at the United Stares check punt, an American Military Prlice sergeant had given us a well-intentioned geography

APPENDING

"On the way back from Berlin," he said, "the road forks. A sign on the fork to the

left says Frankfurt on Older. Lots of people confuse it with Frankingt on Main, headquarters of the U. S. High Commission. They turn left and wind up on the outskirts of Leipzig, deep in the Soviet Zone-if the Russians don't get 'em first.

"It usually takes several days of parker with the Russkies to get 'em out. We're not allowed to go in there to help 'em; in fact, neither you nor I can go more than 13 feet

off this Berlin road.

"Good luck, now. After you pass the Russian claste point, don't pick up anyone, don't stop, don't take any pictures, and don't cover the 104 miles to our Berlin check point in less than two hours. We've checked your time, and if you do, we'll know you reave too fast. If your car breaks down fill out this slip and give it to a passing driver. Then one of our patrols will bring you help.

"If our men haven't checked you in at Rev. lin in four bours, and we haven't had any word from you, we'll come out looking for

you. So long."

The Russian check point at Helmstedt was clogged in both directions with big German Diesel tracks and trailers, halted for checking loads and papers. But a Red Army man glanced at the hard-won Russian stamp of our orders and waved the harrier up. "Gute Fahrt," said the usual German highway sign. meaning "Good passage" or "Open road." We were in the Soviet Zone.

Running a Propaganda Gantlet

For more than a hundred miles we can a ganth to f propaganda. Every overpass here a lag-lettered preachment from the Commu-

List Facty line:

"One Berlin for All Germany," "Arm with Market to the Estate of the Parket Name of the Name of thems be a Fight American for County bus-Secretarian West Greeners, I satural to for the Units of sections" operating, of course, unity under Saviet damination), "Ami Go Home" ('Ami" is a derisive term for Americans), "All Germans at One Table" (picturing a fat U. S. schaler with his feet on the tablecloth while Germans show him the door).

Most signs were in German, one or two in Russian, and some in English and French. One in English needed proofreading: 'Order the Invastigators of War to Put a Stop to!"

As I read the anti-American propaganda of our wartime ally, I remembered German signs in English on the overpasses as our numies rolle i lato Germany in 1845. "Onward, Slaves of Moscow," one had read. "A a want Berlia, but You Will Get Moscow,"

"Green Tumpel" to Barlin

The wide double-lane express highway, or Autobahn, to Berlin is I ke a tunnel, you see so little. The only large city we saw from the cond was Alag leberg, with its factory, himneys, some smoking, others life. One distant factory looked half destroyed, half dismonthed. An occasional windmill pawed at the sky; farmers drudged in the fields with a tow, a rare horse, or an ancient tractor pulling ploy or harrow.

Once we passed a German truck, halted by patrolling Russian solbers. They swarmed all over it. A Red Army atmored car stood by with menacing gun. Forbalden to stop, we never found out what the buckless driver was supposed to have done. At another point we saw a car burning mysteriously at the side

of the road with no one in sight.

Much of the route was a two-tone painting in green—the feathery light green of barches leabest the dark green of pines. Pink and white fruit trees were gay as Easter bonnels. Along some stretches pinewoods had been razed, and crops were saragging among the stumps. That policy of wholesale stripping must have palaced the tree-loving Germans.

On Berlin's outskirts we passed another Russian check point—without having to draw in Incian this time—and breathed free air again. Next white signs announced we were entering the U. S. Sector. American soldiers in khaki "suntans" never looked better to us.

One last reminder of the Russians was a Soviet tank of World War II, high on a concrete pedestal. They left it in memory of the part played by armor in the Red Army's capture of the capital of Hitler's Reich.

Here in the southwest suburbs, Berlan looked like a summer resurt. Fat and lazy, the Havel River forms a chain of impid lakes

Grosser Wann See, Klemer Wann See, and a series of other "Sees"—like a meat from north to south. Lakes, rivers, canals, and woodland parks rover more than a fourth of Greater Heelm, one of the world's most specious cities its area is five times that of the District of Columbia.

Soviet Holds 45 Percent of City

To visualize split-up Rethn, one must try to imagine Washington—God forbid —apportioned like a pre among four victorious powers, one of them a Communist dictator-hip. The eliciator's minions hold the biggest section about 45 percent, including must of the Government buildings—or what is lett of them

Ranging the countryside roundabout, the

dictator's armies enclode the city. No trainatruck, car, or harge can move in or out without permission. The only trad link with free territory is the autobahn from Helmstedt in the Erhish Zone of Germany, 104 males away, almost as far as from Harrisburg, Pennsylva-ain, to Washington, D. C.

tet, despute their long ordeal, Berliners didn't act like people under sieue. When we asked directions, the response was quick, ac-

curate, winged with a smile.

"People here orlde themselves on being 'Der helle Berliner'—the bright Berliner—a little more alert and quick of wit than other Germans' remarked Kart

At a gas station a bright attendant smitted

at our tank

"You've been using German synthetic gas." he observed. "I can tell by the swell." (It's

hanarding.,

"In fact," be added with professional pride, "I can recrigance American, French, British, and Russian Garaba—all just with the nove."

When we stopped to use the phone at a taxistand, drivers found me the number before you could say "Götterdammering." They seemed eager to help Americans.

"There's a great fellow feels 2, especially since we und the British fed and fue ed the city by airlift and made it stick," said an American efficial at U. S. Sector Heatquarters

in the suburb called Zehlendorf

Once used by the German Air Force, the balding stands, big and white, on formet Kronprinzen Allee, now renamed Clay Allee in home of Gen. Lucius D. Clay, who headed the U.S. occupation of Germany during the airlift.

A street near by is named for an earlier, much-admired American character. It's quaintly called Unkel Tom Strasse (page 692). We could not find a Little Eva Lone, however!

Soviet Sector Dubbed "West Moscow"

Before exploring this city of schism, we took a long look at a map to avoid going into the Soviet Sector by mistake. Severity-seven percent of the streets leading into it are barticaded by patrolled by Communist police. Some are marked with signs, but a few are signless primiose paths that neight lead into trouble. Later we planned to go there, but we didn't want to blunder in, unprepared, and tisk having our car confiscated.

If the Communist police of the Soviet Sector find anything they consider linciminating, like West German marks or a copy of the London Times or Stars and Stripes, the result may be days of datance—warse if the Lowetting guest is on the Communist black list.

* See "Auffit to Berlin" NATIONAL GENERAPHET Missaziste, May, 1949



Free Berlin Flashes News to Neighbors Across Te Invisible Communist Curtain

A cold of the political terms of later the best best to the internal terms. int to be and the trader the beauty. The Five French of the Section of the sectio and provided a some of and parties the one transfer per the Resent Section to the course that a first the toront but to the server 5 months for the first to the second business of the L 4 | 9 | 11cs

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Percy Y to City Split Like Berlin, with Communists Helding Nearly Halfil

Soviet Russin proof a controls the him: The color of the specificity of the trial. Communist Fact Berlin, with its operative "electrons," to studded W. - M. - M. Berliners (pane 643). Free secret ballot above this entry fathers of West Berlin, colored by the property and breaks Section. Itself builds the longer capital with home at the end of a form that the President-Berlin highway through the Russian North of Germany. These shows are limited for ely to those princed in the article.

ings often have stove, presticking out through the walls. With coal still scape, Germans, at the bothered trying to keep central heaters to be. The series in the array of the series of

the compared the Wester part of the compared the state of the same and the photolical its feet, is the Karser Wilhelm Memorial Church overlooking Berlin's resurrented to day to keep the control of the

Berlin's New Mountains of Rubble

that it est of the rubble in the Wistorn Section has been aleated for the lawy bears of the first hard and a substitute of the contraction. The waste forms minustene may be a first to the part of the factors of the first and the first terms of the first terms. The waste forms minustene entitle to the first and district terms. The first terms of the first terms of the first terms of the first terms of the first terms. The first terms of the first terms. In the Tiergarten the blasted tuits of a cut to a reasonable black a were were been to the a large trape and black a were were been to the action of the property of the section between the property of the section between the grass, those as a section of the rotate of the rotate grass of the rotate sequences of making war.

Stone statues of former rulers of we as Germany seem in hindly, almost in hindly of the con-plants of the Time seem and a rate for Suges Allèe, or Avenue of Victory, a mockingly inappropriate name today.

Stripped of most of its big trees, the Tierger of a maked so the bank of a factal get mag a transmission with factories of the tier was thester to but to man the mass to long warm during the seal peatwer winter

"We had a hard time getting them to do it, no plot an Argentan of all. The city fathers in 1, "Note that are reall."

But exemptally many trees, admines becould



Bue-shirted Young Communists of East Berlin Recall the Hitler Youth

The first tree to be a first tree to be a set of the man the first product of the first produ

then the Increment of Court Wolf strangs of the ending the first of the kade and delift. Now their places are taken by two midden new little trees, brought from West terminy and set out with Marshall I hin aid.

Hong the Aurillantin limins and other important strain on the Western Sectors, Marall I has full take helped repair old building and test sum out. Another them we not be may be fully a latter and a responsibility plant, all bearing signs in mandair buildings of the market strains.

"We Like to See Nice Illings . . . "

New project knows or Dairy were therein, income and pieces conguly compactate to the end of Firth Avenue, Anvone with the matter that the people have a content threshops with a content threshops with a content threshops with a content to the Parks of the Russian gap in the income and the arreser of the Russian gap in the content to the section of the Russian gap in the content to the section of the Russian gap in the content to the section of the Russian gap in the content to the section of the Russian gap in the content to the section of the Russian gap in the content to the section of the Russian gap in the content to the section of the Russian gap in the content to the section of the

"We have seen so many poor things that we like to see nice things a the Kurfurster Parent." said a West beauty doctor's water "even if we cannot buy them

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"A young man I know was on his way to visit his narents in the first Zone and was read an active to be true to be the true of the I k-vector was first and are I go I show at a gold and all I show a read pole and a read pole and a read pole and all I show a read pole and a re

INCHE - THE WAR I BY JOSE STREET,



For West Berlin's Pat Hisportames, Love Landed or the Iron Curran

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troughted policy later as produce the

ter and more abundant in the well-stacked West Berlin stores. Communists who have the money often come over to kuy shoes, bicycles, tires, spare parts, light bulbs, butter, textiles, medicines. Lite on the Seviet side is hard, and I ttle can be bought there except the harest necessalies.

In contrast, the good things of life are so readily obtainable in the West Sectors, if one can afford them, that the West Berlin publisher's wife told me last similar that she was actually sending packages to friends to

England, mostly sweets

Although carrying Western marks into the Eastern Sector is a criminal "currency oftense". to the Communists, changing one kind of money for the other presents no problem. Bowntown West Berlin is douted with Weckselvinhen, or "Exchange Rooms," for the purpase (page 7J0).

These money-changers exist primarily for the benefit of the thousands of berliners who commute daily across the line dividing the city. More than 62,000 West Berlin residents work in the Soviet Sector, though the number is steadily decreasing; some 45 000 who live

n the East have jobs in the West.

West Berliners working in East Berlin are chaetly skilled specialists and accordingly get somewhat higher pay than the average Soviet Sector worker. Income in East berlin averages plant the same number of purks—250 p munth as in West Berlin, but the cost of living on the Communist side is roughly 25. percent higher.

An Hour Behind the "Curtain"

On May Day afternoom Kurt Wentzel and I took a small in the hammer-and-sickle section. We walked a bit wardy, for up to that time 24 West Berliners connected with the press had disappeared on similar walks or had been kidnaped in West berlin and swatlowed up in the silence on the other side.

Americans were supposed to be safe, subject to several if—if they chant take pictures or ask prying questions, if they dient carry "capitalistic propaganda" such as a Western newspaper, and if they had no West German.

Inchely.

Flat in the pockets, we walked through the invisible curtain at Berlin's Pot-dinur. Plate. No lence or barricade marked the bandary; merely by crossing the street we

entered the Soviet Sector (page 597). Although we were speaking English and the angle of my snap-brim bat must have marked me as an American, patrolling police took no notice of us as we strode toward Linter den-Liaden, In fact, when we stopped to ask directions, one told us just how to reach the Lustgarten, or "Pleasure Garden," which serves as a Communist milying place, like Muscaw's Red Square,

Our route led past the tumbled renmants of Hitler's Chancellery and the site of the nir-raid shelter where, according to all available evidence, the Nazi dictator went to a suicide's death in the teppling mins of his "thunsand-year Reich." Communist wrecking crews long ago blew up the bomb shelter. and now they had all but erased the warbattered concrete-and-stone Chancellery: today its stones stand anew-in mammath Retlin memorials to Status and the Red Army.

On and near Unter den Lindes much clearing and building had been done, for the Russians are trying to turn this famous street, heart of Berlin, into a Soviet show place. New traffillings were largely Government agencles, melading a huge new white-marble Russin codusse. Whole streets near by still

gaped in ghastly rain.

Marchers Belie "Peace" Posters

But surely there was no lock of advertising. two- of three-story-high posters and signs banged away at selling one thing, the Consutpist Farty line. In contrast to Western Sector. signs advertising toothquate, light halle, and Mercedes cars, these urged outliwing the atombomb (balked long ago by the Russians themselves), protested the "cap talest aggression" in Korea, and warned, "Thus't Let Berlin Become a Second Sead."

Ten-times-lifesize pictures of Stalla and German Communists wearing benewlent expressions looked down at halid cy crowds, and a voice as excited as Hitler's harangued them.

in German through loud-speakers,

To turn the Lustgarten into a huge "Marx-Logels Square" for Communist gatherings, the Russians razed the old Schloss, or Falme, where Kaiser Wilhelm II gave the orders for wat in [y]4.

"Frotest the rendictarization of Germany." urged a long cloth sign in the Lustyarten. The red-lettered words formed an ironical caption for a dark mititary column marching directly beneath them—ride-toting men in black jackboots, midnight blue unlicens, and black rainconts that regulfed the old Naza \$5 troops.

These Manser-carrying marchers were Ger maii Communist Bereitschastspolizisten, er "Alert Unit Police," trained by the Russians in secret-police methods and use of modern military weapons. The U.S. Department of State says this army of "police" in the Soviet Zone of Germany was organized in Ni vember, 1946, and now numbers 53,000. Some of its members, the Department says, are trained in the use of tanks, muchine guns, artillery, and even aircruit.

If any of the onlockers in the broad plaza noted the irray of the grim column currelai ; stan-t a backdrop of .. 'c t water ' Wes. em remainer of the gave 1 d sign

On United Ion Lash to we see other columns mark the second boys and chis on the 2.0 He show and there of the large beats be lugend, the Communist youth o are not now outlawed in West tweetens. They could have been But r Youth on the eve of Work. Wir II Now, or had changed but Le uler

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Many Headaches for Businessmen

The this visit is the surprising thing is that Wast farlingen live, work, and produce well as it closes in view of Soviet restration and the state of t not sover y lad or sever

Trains Lower Berlin ar ! We : Group " change held, as by the Communists on sort is the first product of the authority it manifestable in the entire the big of selections. The auditualis set partition moved and it profet laser researches they a harmy a militeria. rate and the day to the telephone of the death of the in exacts forth cinemated like Acord Arrest on the first They stop that barges; then we stop theirs "

- At the end of the war, 35 per ent of proon the facilities in this bights with sized

metropolis had been dispersed by the Nazis to avoid bombing (10 percent), destroyed by bombs, artiflery, or street tighting (15 percent), or taken east as reparations by the Soviets (6D percent). In addition, Berlin business found itself almost entirely cut off from the sarrounding Soviet-neld State of Brandenburg, with which many of the city's industries were closely geared.

Despite these past and present difficulties, West Berlin industries are grinding out reside tubes, light bulbs, paper, furniture, shoes, precision instruments, machine tools. There's even a stalned-glass window factory. Berlin's vamed output is sold in West Germany or abmed, where it cares much-accided foreign

exchapge.

Some of the factories are refugees, like Kurt Miller's shormaking business. Stiller once was codirector of one of Germany's largest shoemaking plants in Breslau, now under Polish administration. After the was he used up a for of his own shoe leather by walking from Breslau to Berlin. There he set up a tiny shoe-repair shop that has blussomed into a small but busy shoe factory.

In many cases, manufacturing firms have moved accretly across the line from Communist East Berlin. The heavier machinery had to be left, but proprietors and boyal workmen antiggled much of the so after equipment across in suittases. If a machine or a part was too big, they cut it in two and welded it together later.

Some firms, it is true, have iled from West In It to We the property and a few trees. intolerable difficulties. But chough are left to keep the free semicity abve, if not prosper-

ous, with Marshall Plan help.

Good Music Cheep, Installment-plan Art.

Music, too, has refused to due. The Berlin Philiarmonic Orchestra once again is one of the finest in Europe. Rallet and opera flourish at the Municipal Opera House in the Stilish Sector. The well-paid Symphony Orchestra of RIAS, Radio Station in the American Secfor, is rated tops by critical Berlin listeners.

Takets to West Berlin concerts range from two to 20 Deutsche marks (about 48 cents to \$4.80,). Groups of workingmen and

students get even lower rates.

Eurthermore, West Berlin makes it easy for ha castern neighbors to share its musical cotestainment. They are permitted to pay the same repulser of marks in their Communist currency, really worth only a filth as much, if they can show an East Zone or East Sector paratity card,

Art as well as music has revived. At least one West Berlin dealer sells paintings on the installment plan. Thus purse punched customers can enjoy the pictures while they pay.

Higher education has had a rebirth. The Free University in West Berlin bus 5,000 stadents, readly half of whom now come from Communist territory. It was set up in 1948 after students backed at rigid Communist control of the University of Berlin on Unter den Linden in the Soviet Sector. From America last August came a \$1,309,500 Ford Foundation grant to bean the struggling Fire Uti-1 - 121 . .

Vices who remember the lethargic Berlin of the immediate postwar years see a decided change in the Western Sectors today. People look fresher, healthier, better fed, better dressed. I heard mone of the "American swine" talk reported by visitors of five years.

agh."

75 Percent Want to Share Defense

Berliners told me with apparent sincerity that they liked having Western troops around as a deterrent to the Russians. A recent post showed that 75 percent of West Berliners wanted to share, physically and morally, in defense of the West against Communism.

True, they feel—like their Mayor—that this defense can be accomplished without war. Typical of German war-weariness was a 22year-old boy working as a waiter in Berlin. Captured by the Americans at 10 and released with the coming of peace, he had tried tepeatedly to get out of Germany. Bent on fleeing to America as a strwaway, he was turned back in the Netherlands, in lielgium, in France, in Spain,

"I don't want to get tangled up in another

war," he said with emphasis.

He and other young Germans expressed disillusionment with politics as well as war. They confuse nursial participation in government with the old one-party Nazi system and say, "Look where that got us!"

Because of widespread unemployment, thousands are working at jobs a notch or two below those for which they were trained. At a filling station the attendant insisted on taking out every spark plug and wiping it thoroughly. (They proved to need it.)

"This isn't my job at all," he remurked. "I was trained to be a Kenjmann (merchant). But I was brought up to do everything ther-

oughly."

For holiday relaxation Berliners head for the outskirts on myr.ad bicycles and motor bikes; but West Berliners can't go far.

Spec, in the Napona G. Backett Marketal "Marted I was Across the Kerney by J. Frank I was January 1947. I die to ber water ee as tall in Uncle Sam and John Bull in Germany" and "Opek-Sam flends a Twin in Germany," both by Frederick Strephelt, in the January, 1949, and October, 1948, 25日でも



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The Common a treater back the capaque one field of which has respect to the Exclusive R. V. Ludge Cott. One past to so kings for freedom!

"The people over there are hungry for information." observed an American official. "Every May They we invite East Sector residents over for a big meeting and show at the stadium; about 25,000 come. We give at copies of our paper and our magazines. Texte and Der Mougt. They tear 'em out if your hands. Last year one of our men lost his shirt. Finally the men had to get un top if the truck and throw 'em at the people."

Die Neue Zeitung, U. S. newstaper in German, prints in its Berlin edition a daily box some of desertions to the West by Communist

Velkspolizel, or 'People's Police

More than five hundred Terple's Police' are included among the 20,000 who have compower to us from the Fast in the last four months, asking for asylum," said the paper's assistant editor. "Some days there are only one or two police, but we get as high as 17 a day; one day we even had 32."

House Without a Smile

One of the suddest places in Berlin is the refusee center, or Fluckellingstelle. In the long drab lines of waiting people I never saw a smile.

Broken-spirited men, women, and caibleen, these are refugees from the first. West therlie gets at least 5,000 a month, for here they can walk through the Iron Curtain to freedom. They came with only what they can carry, having sacrificed everything clse.

'How can you tell a real refugee from a

spee?" I asked the German director.

"Sometimes you find out only after the dantage is done," he said. (He used a German
proverh, "After the child has talled into the
well.") "Cross-examination backed by double-checking with undercover agents in the
Fast Zone usually brough out the truth.

"We get all kinds of people, but the basic rim of post of them is to raise the standard of life, which they know will be raised in the

West as contrasted with the bast.

All except spies get sanctuary, but only those who can prove life of liberty was in danger are granted asylum as political refueres. This covered recognition entitles a refugee to earn a living in Berlin if he can find a job. White unemployed he receives a small all mance.

Because of limited housing and jobs, most refugees spend months or years in larrack-type camps as Berlin and West Germany.

In two stages houses in a residential section of the American Sector we found the German high command of an active underground movement, the highting Group Against Intermedity. Its volunteers organize resistance to police-state methods in the East Zone, try to trace fellow Germans swallowed up by

Soviet prisons or skave-lab of camps, free them if possible, and keep alive the spirit of resistance by chalking "F" for Freedom on Com-

munist buildings In the night.

Leader of this organization is Dr. Rainer Hidebrundt, 36, a writer with the brow of a scholar and the burning eyes of a militant. Enemies from the East have tried to kidnap him. I more balked one plot by providing two gameer parked in a car outside his house. Their plan, they said, was to have an ear knock Dr. Hiblebrundt off his breycle Other men in a car behind would stop, under protect of helping him to his feet, then stuff him into the back self and race for the Soviet Sector.

White we talked with the invisible legion's leader, guarded by a bear-sized dog, mysterious people cause and went through the corridors of the old house, fit setting for a Hollywood melograms.

In one poom we saw several square yattle of misery, a row of open wooden pucking cases containing 66,000 cards. Each of 26,000 bore the name of a person missing behand the Ir of Curtain: the other 40,000 were inquiries from abxious telatives.

Names of Nuzi concentration camps under Red management turn up in these cards: for example, "Seen at Buchenwald and the date

Hamelia Like a Different World

"In Berlin you feel as if you're about 100 miles out on a limb," said Kart as we sped along the Russian Zone autobahn on our way back to West Germany.

When we reached Helmsterlt, we took a

deep breath

"It's as if some heavy hand had been lifted, 'Kurt said, beelingly.

That night we slept in an atmosphere centuries away from exchattled Berlin, the 349year-old Ratesteher House in Hamelu, the Hamelta of the old Pied Piper tale.

Beside the state gabled home runs in alley in which, to tals day, law forbids any tavern, grants, or neuriment. For along this rotte, any townsman can tell you, the Pied Piper led the children of Hamelin. Like the rats be had led to the river, they followed him out the gates of the town and never were seen again.

Though whatever gave rise to the fairy tale happened more than 600 years ago, the grief of the values stal finds expression in the name of the alley, Bungelosen-Strasse—"No Drains Stratt

Under the stair-stepped gable roof of the old Rateatcher House, I dreamed of the Pied Piper of Hamelin. But the children ad had blue shirts, and the Piper living Lacing to the upknown wore Communist red.

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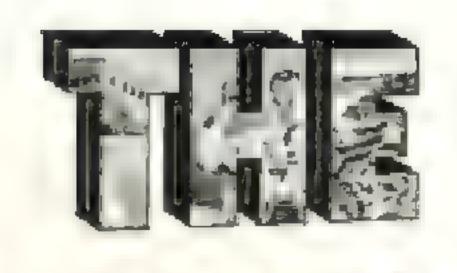
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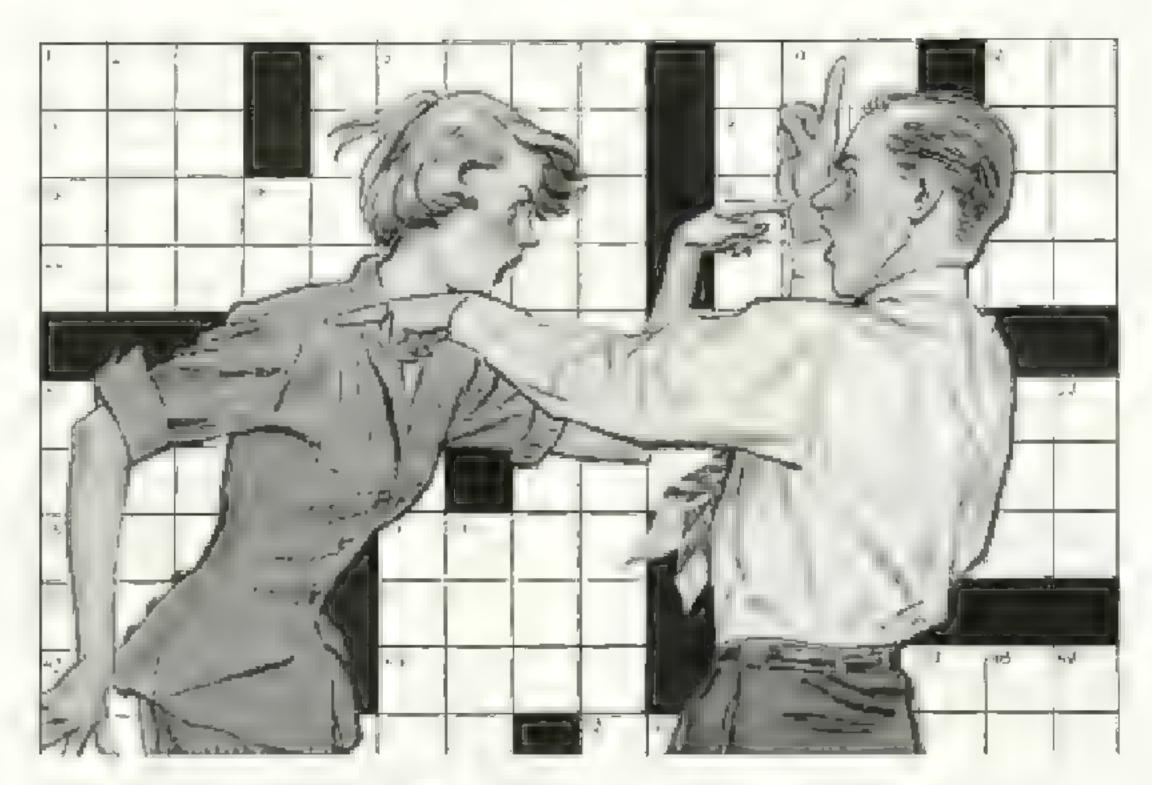
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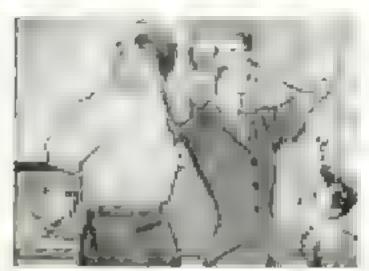
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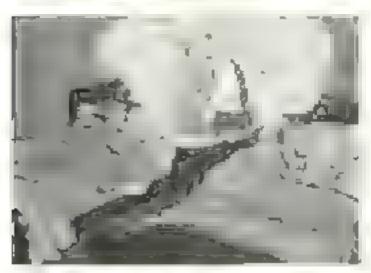
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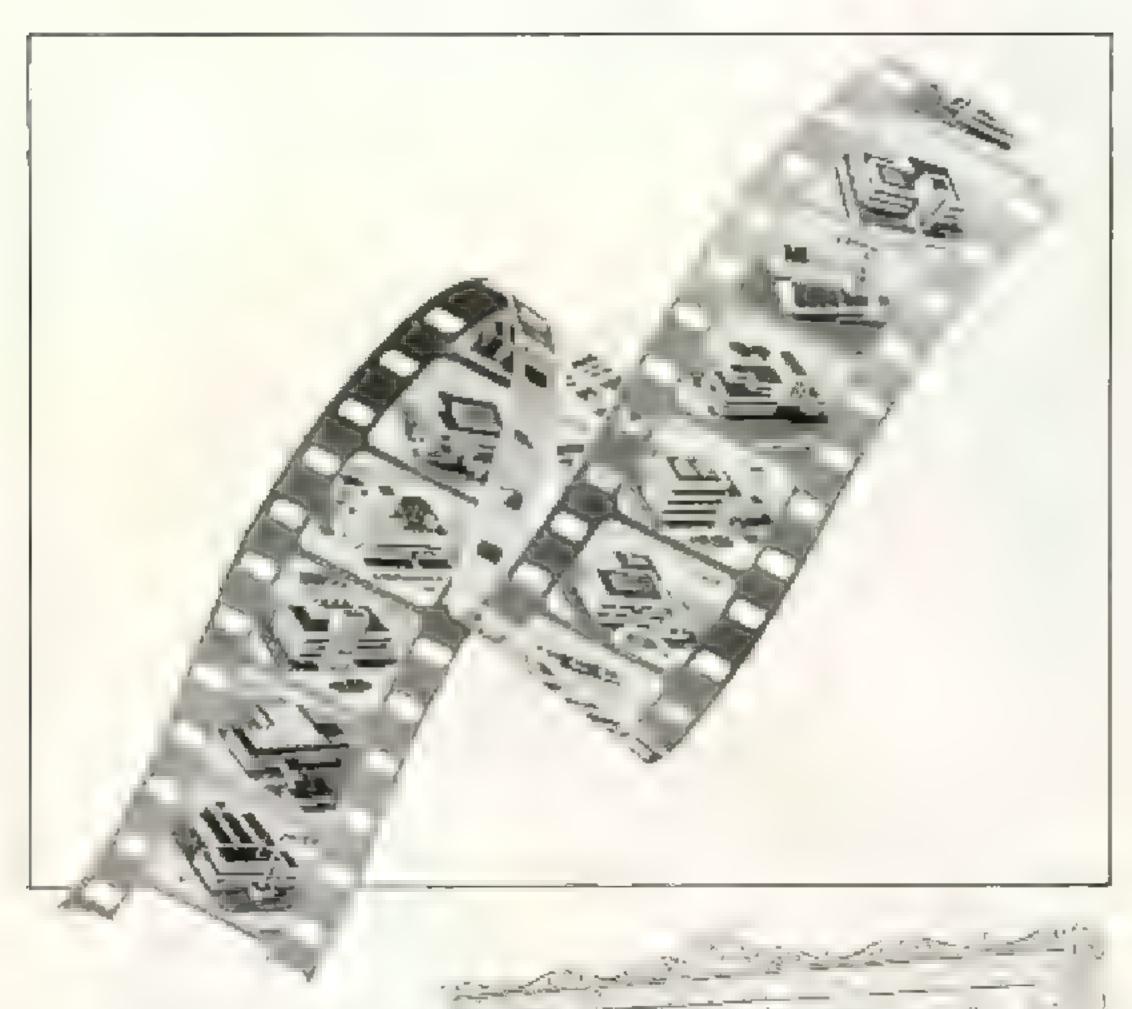


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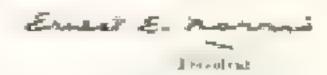
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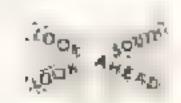
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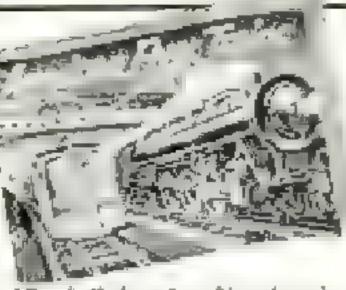
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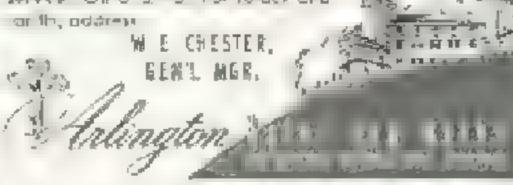






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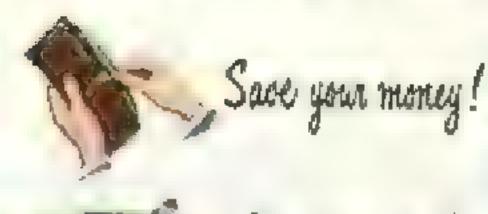
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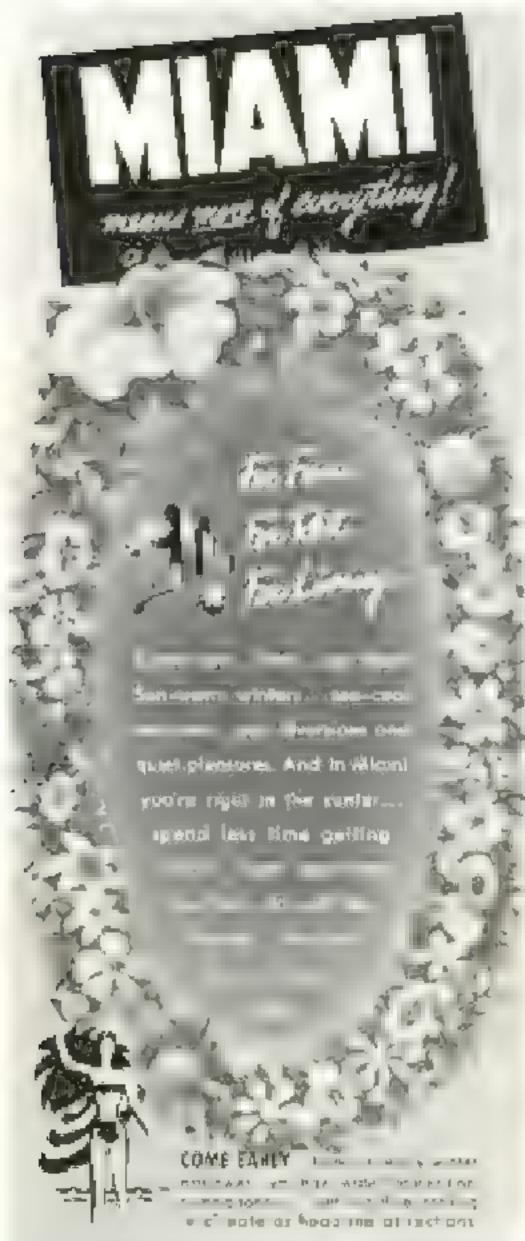
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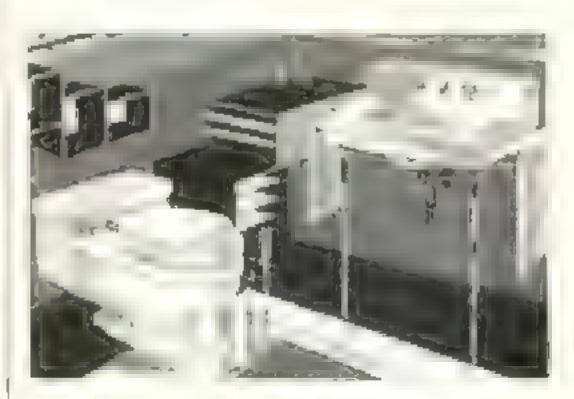


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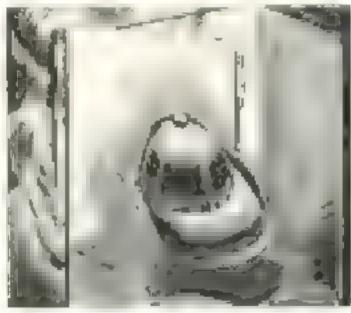
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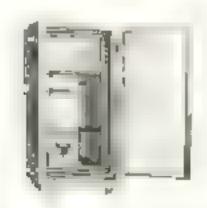
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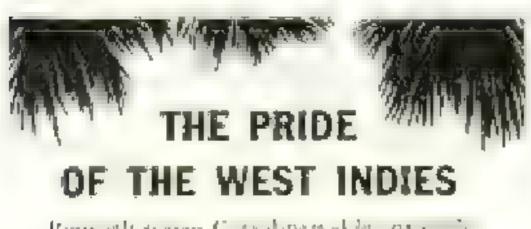
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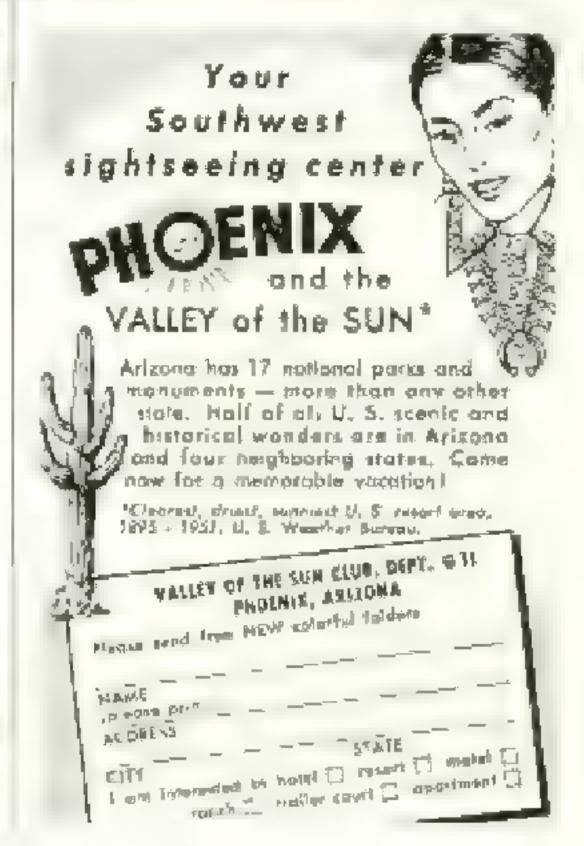
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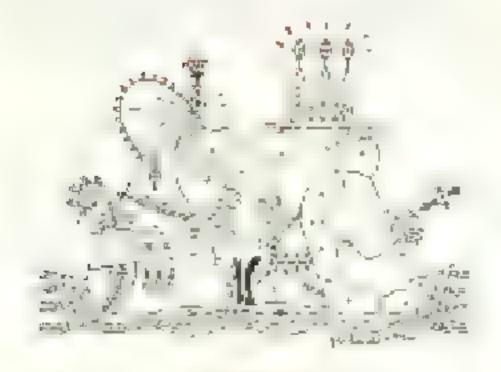
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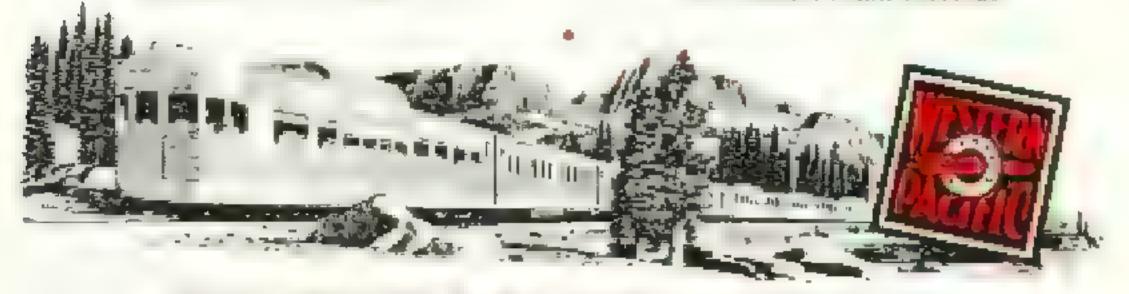
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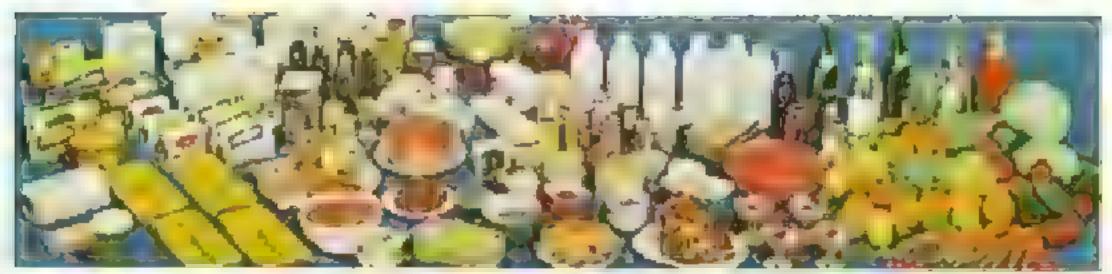
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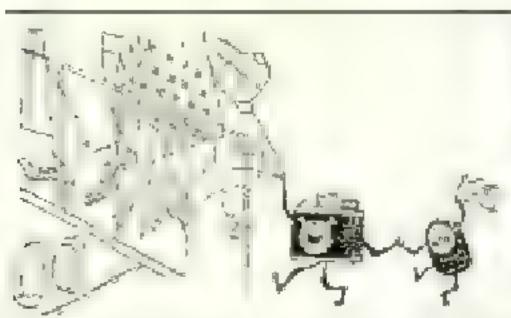


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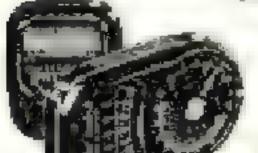
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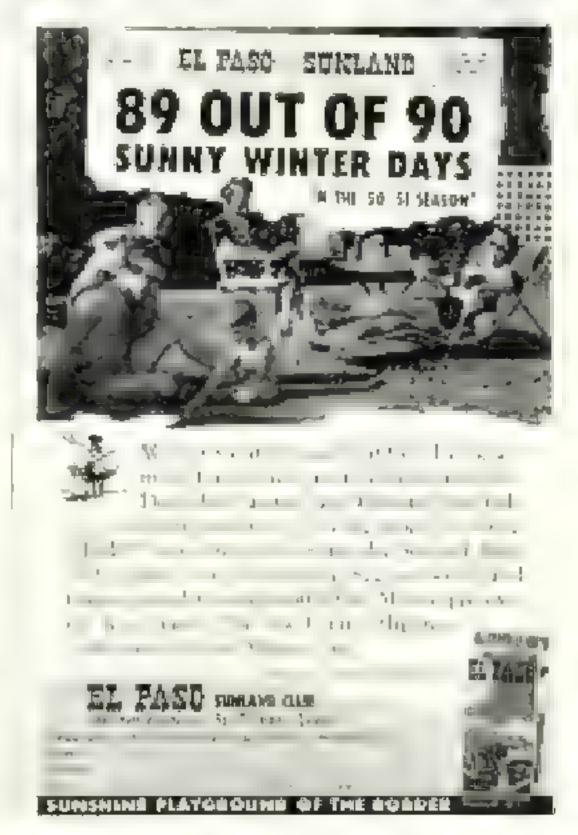


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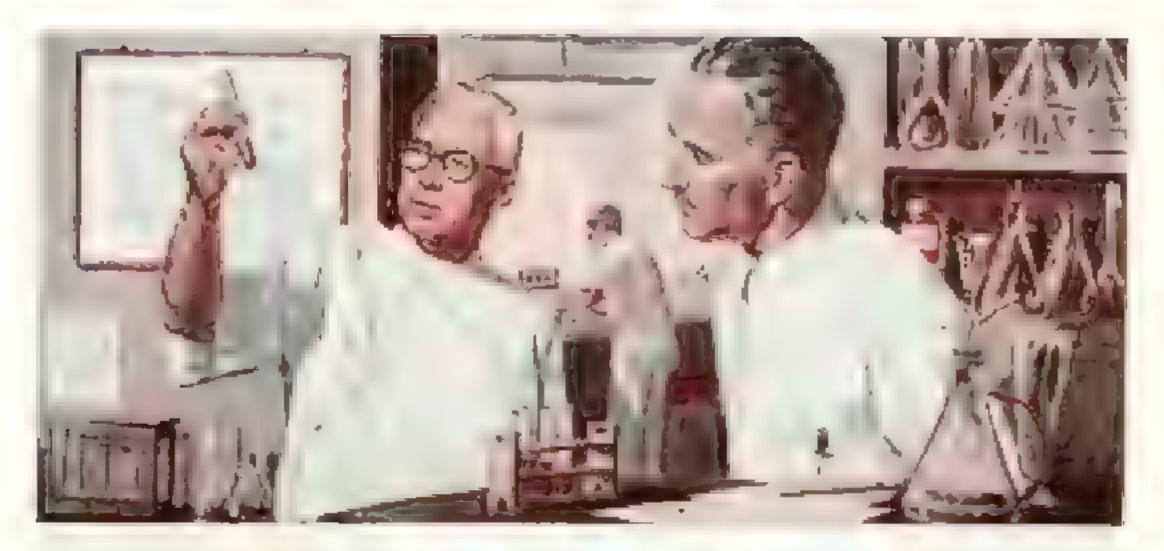
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Moreover, the outlook for still further gains against thin a season good, as medical seigner is constantly improving the treatment for diabetes. New types of insulin, for example, have made possible better control of this condition. Hope for future progrets beam coment research on insuling and on uncaution of food by the body.

thecton say, however, that success all control of cabetes more than ever depends largely upon the dabetic however, who must little stand his disease to order to learn to live with it. Above all, he must cooperate closely and faith ity with his photon in keeping fourhier or and converse in a meet belance.

Index, the parient who extefully follows the doctor's instructions about these three esse made of frequent to well as other measures to many good healt to can usually look forward to many years of happy living

However, there are a great many people in our country who have diabetes, but do not know it....

This is because the discuse usually entires no obvious early symptomis. Yet detections is easier today than over before. For instance, it is now possible for my one to make a striple seet at home to desect sugar in the tall to —one of the signs of disberes.

I to lest is also a purific part of most me, callest materials. If the lest majurative, the doctor can then make additional tests to describe whether the presence of sugar is due to diabetes or set a other condition.

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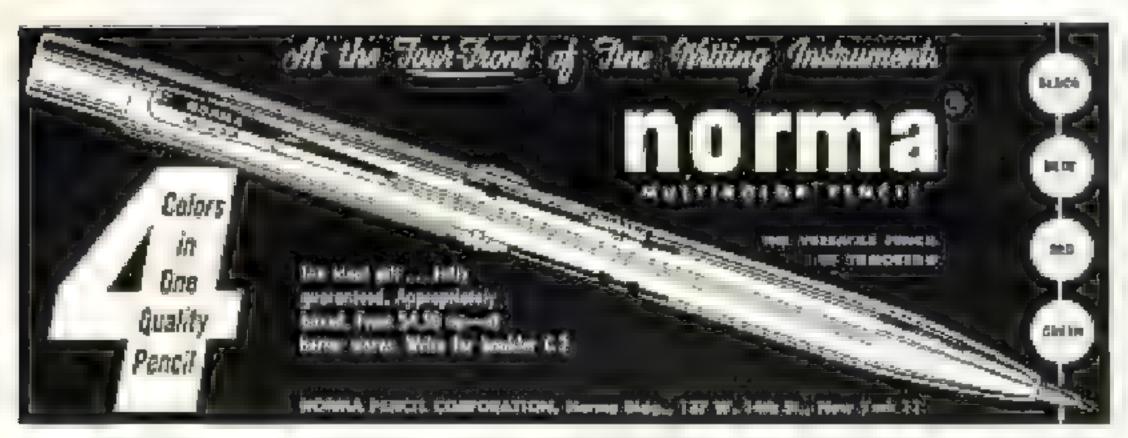
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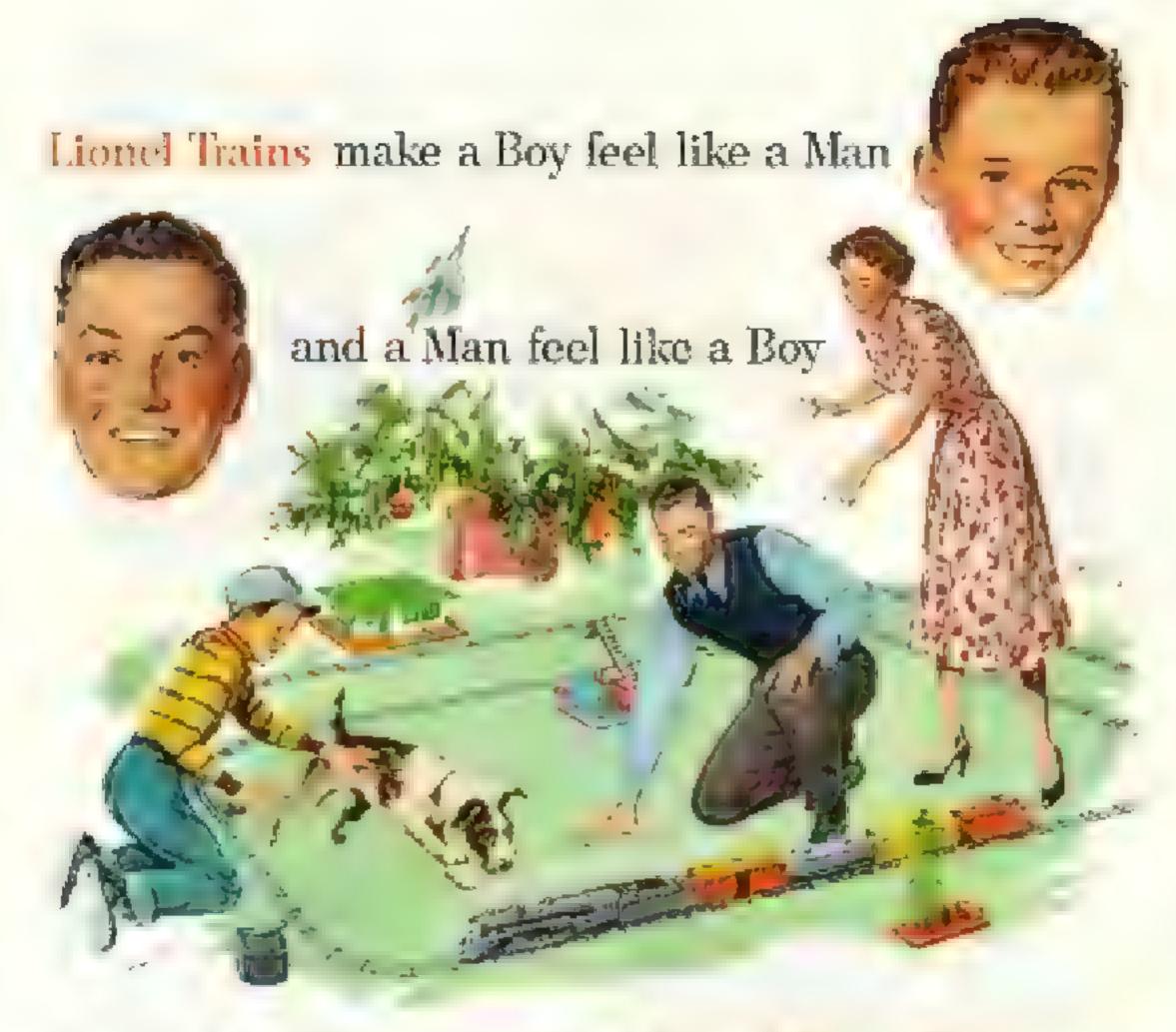


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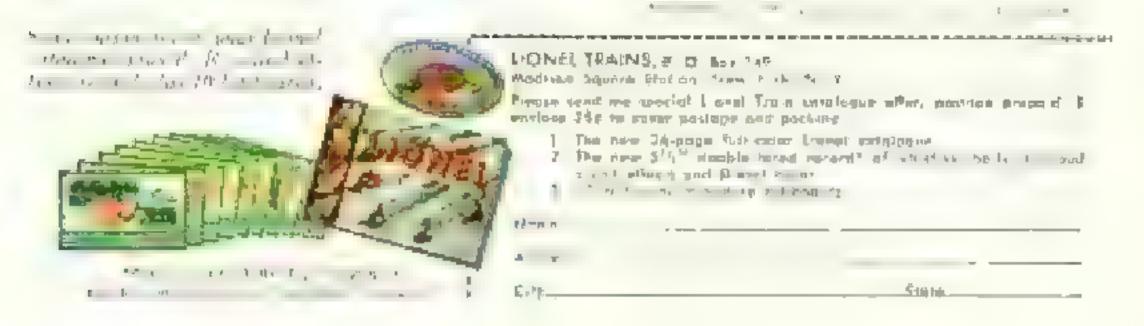
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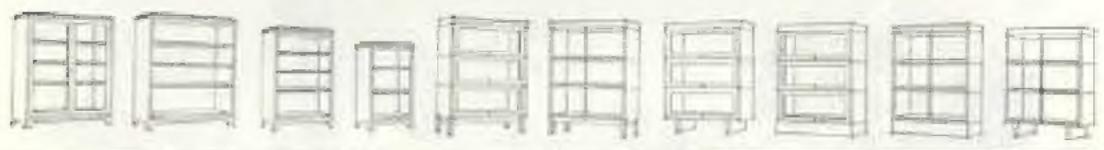
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